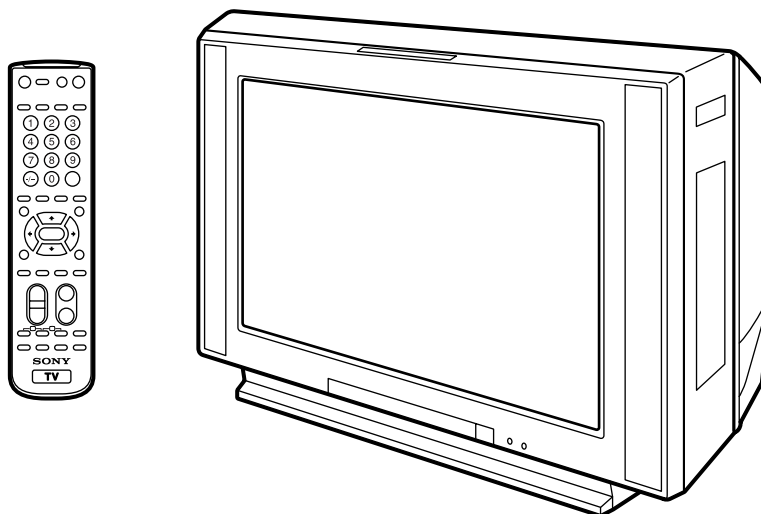


SERVICE MANUAL BG-3S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KV-EF34M31	RM-951	OCE	SCC-N99A-A
KV-EF34M61	RM-951	GE	SCC-U12D-A
KV-EF34M80	RM-951	ME	SCC-U16E-A

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
KV-EF34M90	RM-951	HK	SCC-U17C-A
KV-EF34M90	RM-951	JE	SCC-P01A-A
KV-EF34M91	RM-951	ME	SCC-U16D-A



TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Stereo system	NICAM Stereo B/G, I; A2 Stereo (German) B/G	
Teletext language	English, Arabic, French	
Channel coverage		
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 CATV: S01 to S03, S1 to S41, Z1 to Z39	
M	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+84	
⏏ (Antenna)	75-ohm external terminal	
Audio output (Speaker)	15W + 15W*	
Number of terminal		
📺 (Video)	Input: 4 Output: 1	Phono jacks; 1 Vp-p, 75 ohms
🎵 (Audio)	Input: 4 Output: 1	Phono jacks; 500 mVrms
📺 (S Video)	Input: 2	Y : 1 Vp-p, 75 ohms, unbalanced, sync negative C : 0.286 Vp-p, 75 ohms
📺 (Component Video)	Input: 1	Phone jacks Y : 1 Vp-p, 75 ohms, sync negative C _B : 0.7 Vp-p, 75 ohms C _R : 0.7 Vp-p, 75 ohms Audio : 500 mVrms
🎧 (Headphones)	Output: 1	Stereo minijack
Picture tube	34 inch	
Tube size (mm)	859	Measured diagonally
Screen size (mm)	800	Measured diagonally
Dimension (w/h/d, mm)	859 × 660.5 × 573.5	
Mass (kg)	83	

* 10% distortion

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.

The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

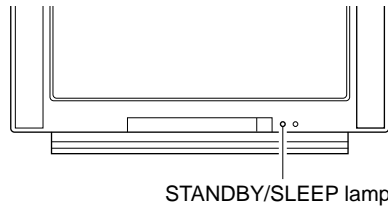
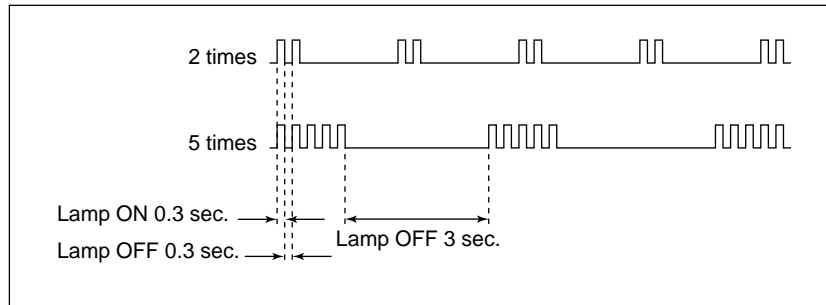
Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	<ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse is burned out F4601 (F) 	<ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
<ul style="list-style-type: none"> • +B overcurrent (OCP) or overvoltage (OVP) • Vertical deflection stopped • Horizontal deflection overdrive 	2 times	002:000 or 002:001~255 003:001~255 004:001~255 at the same time	<ul style="list-style-type: none"> • H.OUT Q511 is shorted. (A board) • IC701 is shorted. (C board) • -13V is not supplied. (A board) • IC 503 faulty (A board) 	<ul style="list-style-type: none"> • Power does not come on. • Load on power line is shorted. • Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~225	<ul style="list-style-type: none"> • G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC701 is faulty. (C board) • IC301 is faulty. (A board) • No connection A board to C board. 	<ul style="list-style-type: none"> • No raster is generated. • CRT cathode current detection reference pulse output is small.
• Micro reset	—	101:00 or 101:001~225	<ul style="list-style-type: none"> • Discharge CRT (C Board) • Static discharge • External noise 	<ul style="list-style-type: none"> • Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously.

The symptom that is diagnosed first by the microcontroller is displayed on the screen.

Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



<u>Diagnostic Item</u>	<u>Flash Count*</u>
+B overcurrent/overvoltage	2 times
Vertical deflection stopped	
White balance failure	5 times

* One flash count is not used for self-diagnostic.

3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen:

[To Bring Up Screen Test]

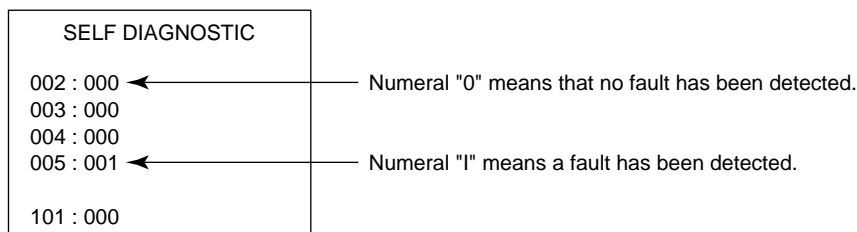
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display ➡ channel [5] ➡ Sound volume [-] ➡ Power ON



Note that this differs from entering the service mode (mode volume [+]).

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]

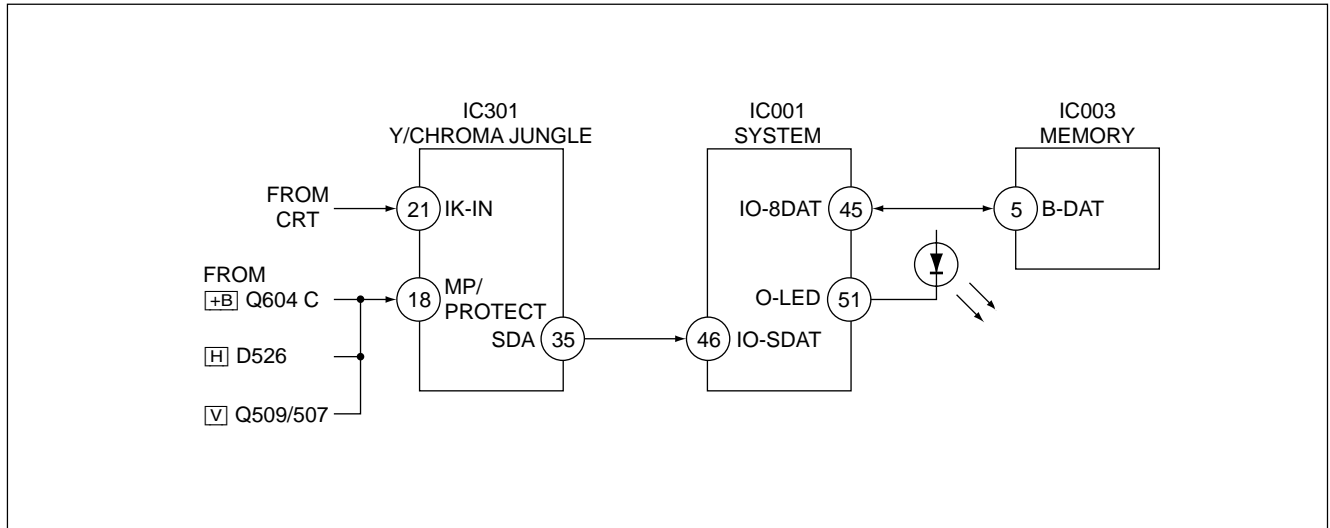
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] ➡ 0

[Quitting Self-diagnostic screen]

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT



+B overcurrent (OCP)	Occurs when an overcurrent on the +B(135) line is detected by Q604(A board). If Q604(A board) go to ON and the voltage to pin 18 of IC301(A board) should go down when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.
Horizontal deflection overdrive	Occurs when an overdrive on H drive line is detected by D526(A board). Power supply will be shut down when detect it.
Vertical deflection stopped	Occurs when an absence of the vertical deflection pulse is detected by Q509(A board) and IC001(A board) shut down the power supply.
Vertical deflection overcurrent	Occurs when an overcurrent on V drive line is detected by Q507(A board). Power supply will be shut down when detect this by IC001(A board).
White balance failure	If the RGB levels* do not balance or become low level within 5 seconds, this error will be detected by IC301(A board). TV will stay on, but there will be no picture. * (Refers to the RGB levels of the AKB detection Ref pulse that detects IK.)

SECTION1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

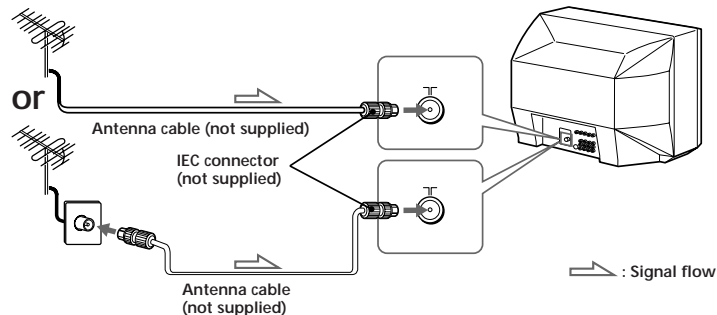
Using Your New TV

Getting Started

Step 1

Connect the antenna

If you wish to connect a VCR, see the "Connecting a VCR" diagram below.

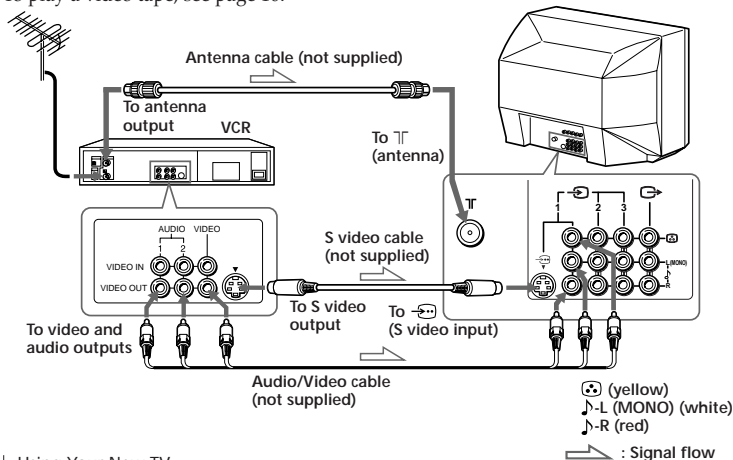


CAUTION

Do not connect the power cord until all other connections are complete; otherwise, a minimal current leakage through the antenna and/or other terminals to the ground could occur.

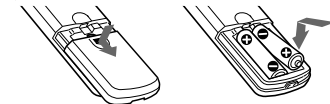
Connecting a VCR

To play a video tape, see page 10.



Step 2

Insert the batteries into the remote

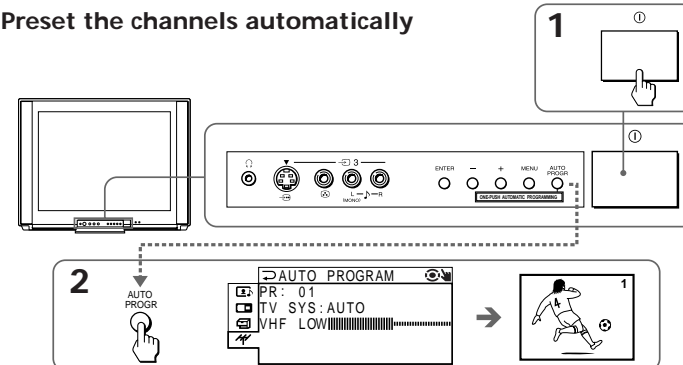


Note

- Do not use old batteries or different types of batteries together.

Step 3

Preset the channels automatically

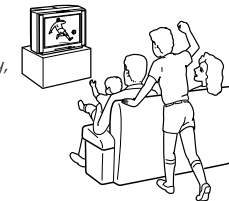


Tip

- To stop the automatic channel presetting, press MENU twice.

Now You Are Ready. . .

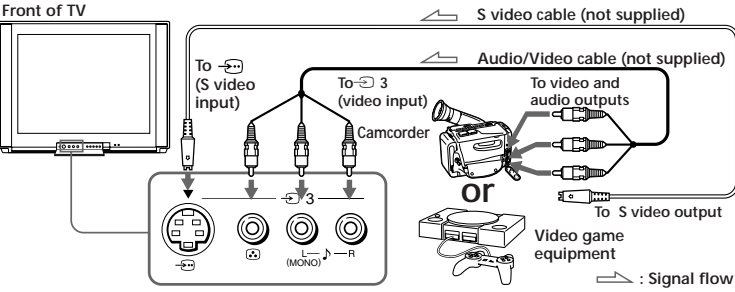
The channels are now automatically preset in your TV. To preset the channels manually, see page 37.



Connecting optional components

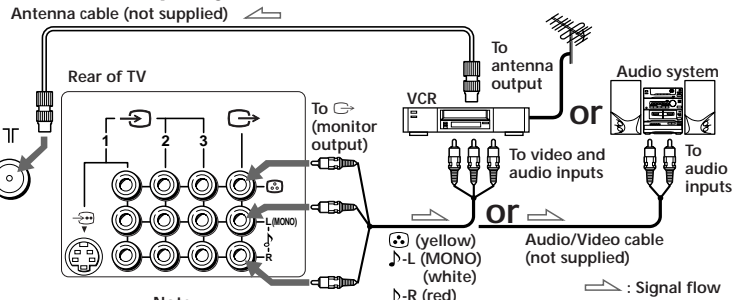
You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game, or stereo system. For operations of the connected equipment, see pages 10 and 25.

Connecting a camcorder/video game equipment using the (video input) jacks



- Notes**
- You can also connect video equipment to the 1, 2, or 3 (video input) jacks at the rear of your TV.
 - Do not have concurrent connections of video equipment to the 3 (video input) jacks at the front and the 3 (video input) jacks at the rear of your TV; otherwise, the picture will not be displayed properly on the screen.
 - When both the (S video input) and 1 (video input) are connected, the (S video input) is automatically selected. To view the video input to 1 (video input), disconnect the S video cable.

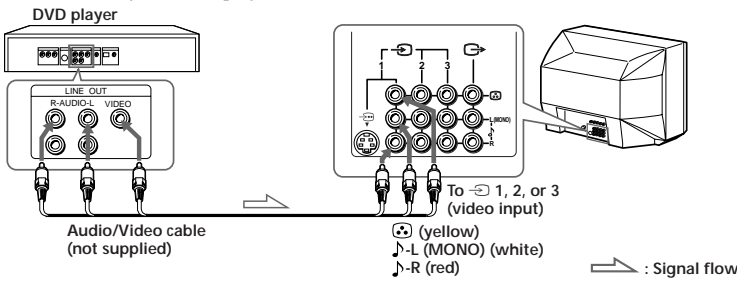
Connecting audio/video equipment using the (monitor output) jacks



- Note**
- When connecting a monaural VCR, connect the yellow plug to (the yellow jack) and the black plug to -L (MONO) (the white jack).

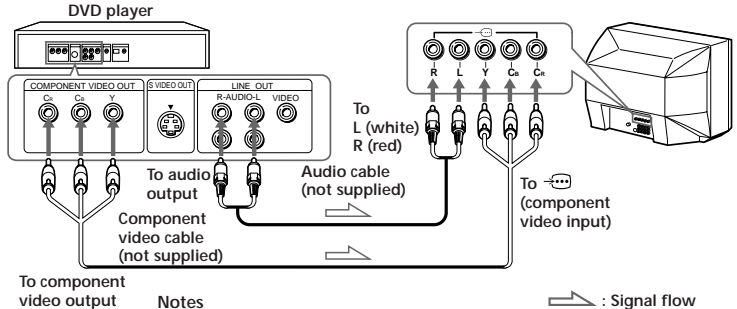
Connecting a DVD player

Connect 1, 2, or 3 (video input) (audio/video) connectors on your TV to LINE OUT on your DVD player.



Connecting a DVD player with component video output connectors

- 1 Connect R and L under (component video input) on your TV to the LINE OUT, AUDIO R and L output connectors on your DVD player.
- 2 Using a component video cable, connect Y, Cb, and Cr under (component video input) on your TV to the COMPONENT VIDEO OUT Y, Cb, and Cr output connectors on your DVD player.



- Notes**
- Some DVD player terminals may be labeled differently:
- | Connect | To (on the DVD player) |
|-----------|------------------------|
| Y (green) | Y |
| Cb (blue) | Cb, B-Y or Pb |
| Cr (red) | Cr, R-Y or Pr |
- Since the high quality pictures on a DVD disc contain a lot of information, picture noise may appear. In this case, adjust the sharpness ("SHARP") in the PERSONAL ADJUST menu of the PICTURE MODE menu (see page 30).
 - Connect your DVD player directly to your TV. Connecting the DVD player through other video equipment will cause unwanted picture noise.

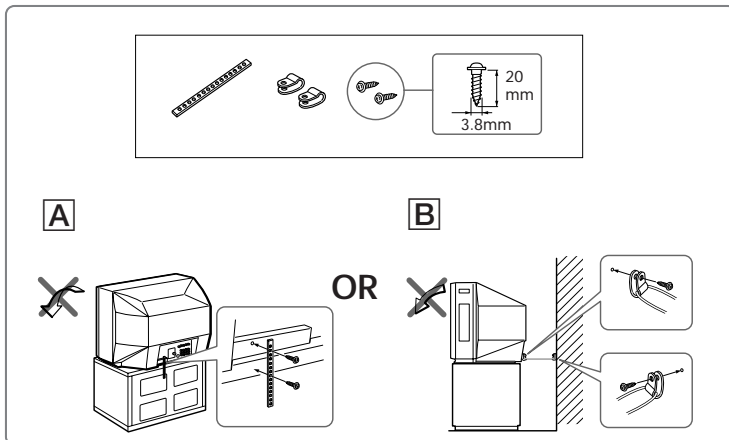
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

- A** With the supplied screws, attach the stabilizer band to the TV stand and to the rear of the TV using the provided hole.

OR

- B** Pass a cord or chain through the clamps and secure them to the rear of the TV and a wall or pillar.

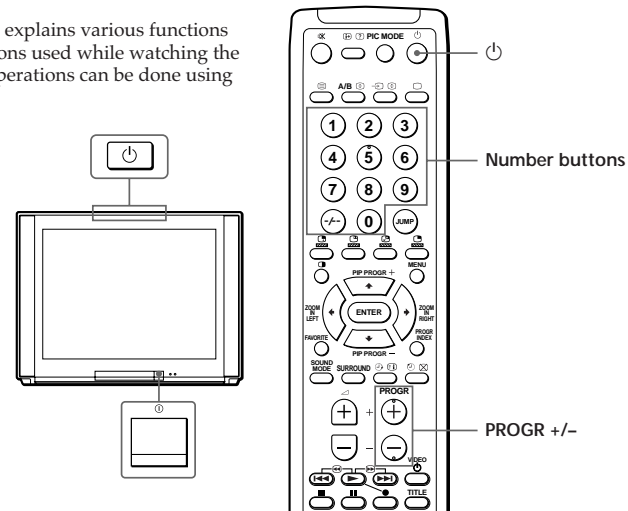


Note

- Use only the supplied screws. Use of other screws may damage the TV.

Watching the TV

This section explains various functions and operations used while watching the TV. Most operations can be done using the remote.



1 Press ① to turn on the TV.

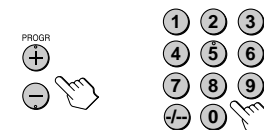
When the TV is in standby mode (the indicator on the TV is lit red), press on the remote or on the TV.

The PROGRAM +/-, +/-, and indicators on the TV light up.



2 Press PROGRAM +/- or the number buttons to select the TV channel.

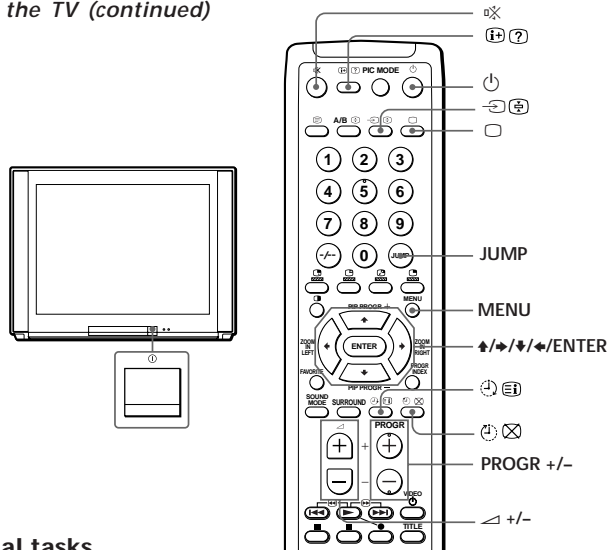
For double digit numbers, press +/-, then the number (e.g., for 25, press +/-, then 2 and 5).



Using Your New TV

continued

Watching the TV (continued)



Additional tasks

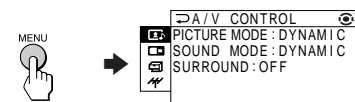
To	Press
Turn off temporarily	. The / / indicator on the TV lights up red.
Turn off completely	on the TV.
Adjust the volume	.
Mute the sound	.
Watch the video input (VCR, camcorder, etc.)	(or on the TV) to select "VIDEO 1," "VIDEO 2," "VIDEO 3," or "DVD." To return to the TV screen, press (or on the TV).
Jump back to the previous channel	JUMP.
Display the on-screen information*	.

* The picture, sound, and either the program number or video mode are displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

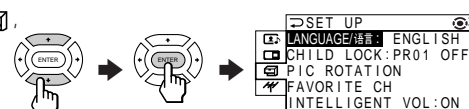
Changing the menu language

You can change the menu language as well as the on-screen language. For details on how to use the menu, see "Introducing the menu system" on page 27.

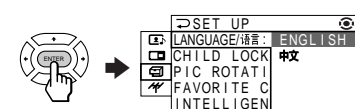
1 Press MENU.



2 Press or to select , then press ENTER.

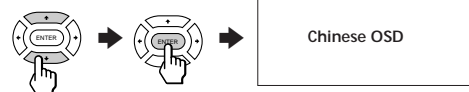


3 Make sure LANGUAGE/语言 is selected (highlighted), then press ENTER.



4 Press or to select 中文, then press ENTER.

The menu language changes to Chinese.



To return to the normal screen

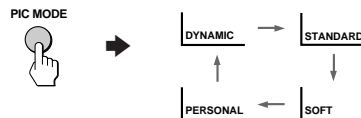
Press MENU.

continued

Watching the TV (continued)

Selecting the picture mode

Press PIC MODE repeatedly until the desired picture mode is selected.



Select	To
DYNAMIC	receive high contrast pictures.
STANDARD	receive normal contrast pictures.
SOFT	receive mild contrast pictures.
PERSONAL	receive the last adjusted picture setting from the ADJUST option in the A/V CONTROL menu (see page 29).

Selecting the sound mode

Press SOUND MODE repeatedly until the desired sound mode is selected.



Select	To
DYNAMIC	listen to dynamic and clear sound that emphasizes both the low and high tones.
DRAMA	listen to sound that emphasizes voice and high tones.
SOFT	receive soft sound.
PERSONAL	receive the last adjusted sound setting from the ADJUST option in the A/V CONTROL menu (see page 29).

Tip

- You can also set the picture and sound modes using the menu (see "Changing the A/V CONTROL setting" on page 29).

Setting the Wake Up timer

- Press until the desired period of time appears.



- Select the TV channel or video mode you want to wake up to.

- Press , or set the Sleep timer if you want the TV to turn off automatically.

The /⏻/⏻ indicator on the TV lights up orange.

To cancel the Wake Up timer

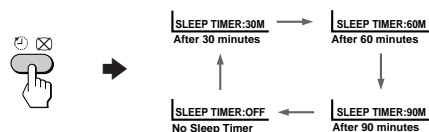
Press until "WAKE UP TIMER: OFF" appears, or turn off the TV's main power.

Notes

- The Wake Up timer starts immediately after the on-screen display disappears.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into standby mode. To resume watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press until the desired period of time appears.



To cancel the Sleep timer

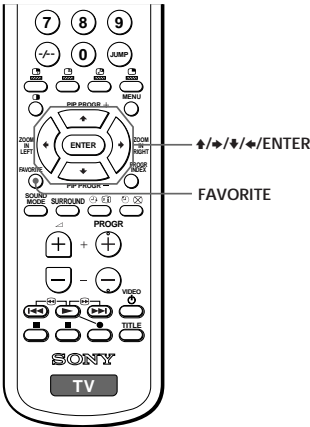
Press until "SLEEP TIMER: OFF" appears, or turn the TV off.

Advanced Operations

Viewing your favorite channels
—FAVORITE CHANNEL

You can display seven “FAVORITE” channels for quick and easy selection.

The last seven channels selected with the number buttons are displayed in AUTO mode. You can set up your own “FAVORITE” channels in MANUAL mode (see “Changing the favorite channel setting” on page 35).



Selecting a favorite channel

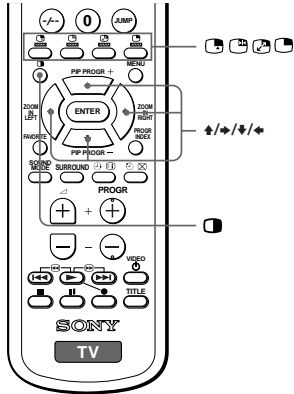
- 1 Press FAVORITE.
The last seven channels selected with the number buttons appear.
- 2 Press either , , , or to select the desired channel, then press ENTER.
- 3 Press ENTER again.

Note

- When you use your TV for the first time, seven factory set, random channels appear.

Watching two programs at the same time
—PIP, TWIN

With the Picture-in-Picture (PIP) or TWIN pictures features, you can display a different TV program or video within or beside the main picture.



Displaying the PIP screen

Press .



Displaying TWIN pictures

Press .



To return to the normal screen

Press (when in the PIP screen) or (when in the TWIN picture screen).







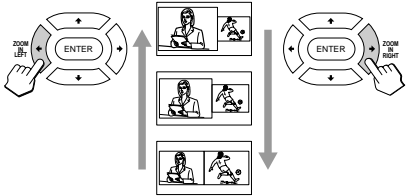
Tips

- You can also display the PIP screen or TWIN pictures using the menu (see “Changing the MULTI PICTURE setting” on page 31).
- You can change the position of the PIP screen (see “Changing the MULTI PICTURE setting” on page 31).



continued

Watching two programs at the same time—PIP, TWIN (continued)

Additional PIP/TWIN pictures tasks

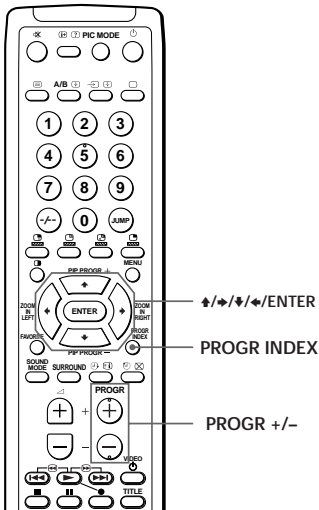
To	Press
change a TV program in the PIP screen or in the right TWIN picture	▲ or ▼. For a video input, press  .
swap pictures between the main and PIP screens	 
freeze the PIP screen	 To unfreeze the screen, press the button again.
swap the right and left pictures of the TWIN pictures	 
change the screen size of the TWIN pictures	ZOOM IN LEFT ◀ to increase the left screen size. ZOOM IN RIGHT ▶ to increase the right screen size. 

Notes

- The  button does not function in the TWIN pictures mode.
- When you display a video input on the PIP screen at a faster/slower speed, the picture may be disrupted depending on the VCR type.
- If you display different color systems on the main screen and the PIP screen, the size of the PIP screen may be different and the PIP picture may be disrupted. This does not indicate a malfunction of the TV.
- In the TWIN picture screen, you can only operate and hear the sound of the main left screen (🎵 appears on the screen).
- When the  button is pressed, the TV screen flickers or goes blank for about one second before the TWIN pictures appear. This does not indicate a malfunction of the TV.

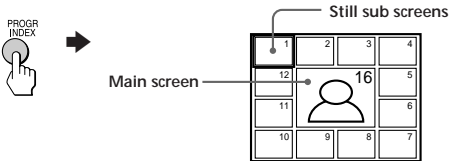
Displaying multiple programs —PROGRAM INDEX

The PROGRAM INDEX feature displays all of the preset TV programs and the video inputs on twelve or seven sub screens for direct selection.

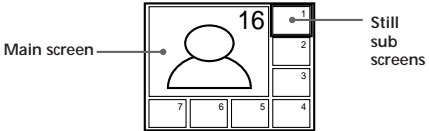


Press PROGR INDEX.

The first twelve preset programs appear one by one, clockwise from the upper left corner.



When the number of the preset TV programs is less than seven, the first seven preset programs appear one by one, clockwise from the upper right corner.



Tip

- When you press the PROGR INDEX button in the TWIN pictures mode, the left picture appears as the main screen of the PROGRAM INDEX mode.

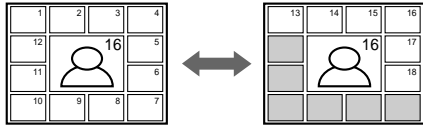
continued

Displaying multiple programs—PROGRAM INDEX (continued)

To view the next or the previous twelve preset programs

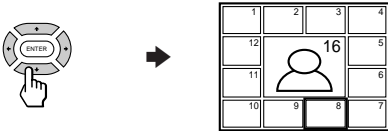
This works only when the number of the preset TV programs is more than twelve.

Press **PROGR +/-** on the remote or the TV.

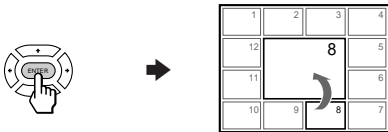


To select the desired program directly from the sub screens

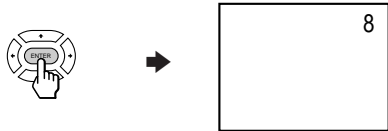
1 Press either **▲**, **▶**, **▼**, or **◀** to move the frame to the screen of the program you want to watch.



2 Press **ENTER**.



3 Press **ENTER** again.



Tips

- You can also move the frame by pressing the **+/-** buttons on the TV. Press **+** to move the frame clockwise; press **-** to move the frame counterclockwise.
- Pressing the number buttons directly displays the program.

To return to the normal screen

Press **PROGR INDEX** again, or:

- 1 Select **"PROGR INDEX"** from the **MULTI PICTURE** menu.
- 2 Press **ENTER**.

Tip

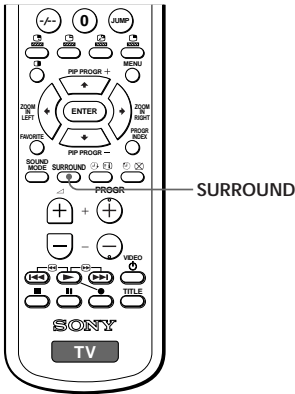
- You can also display multiple programs using the menu (see **"Changing the MULTI PICTURE setting"** on page 31).

Note

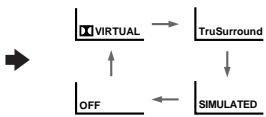
- When displaying multiple programs, only the sound of the main screen is heard.

Listening with surround sound

The surround feature enables you to enjoy the sound effects of a concert hall or movie theater.



Press SURROUND repeatedly until you receive the desired surround sound.



Select	To
VIRTUAL	listen to Dolby* Surround encoded sound.
TruSurround	listen to the surround sound that spreads out to the rear of a room.
SIMULATED	listen to monaural sound with a stereo-like effect.
OFF	turn off the surround sound.

• SIMULATED uses SRS (MONO).

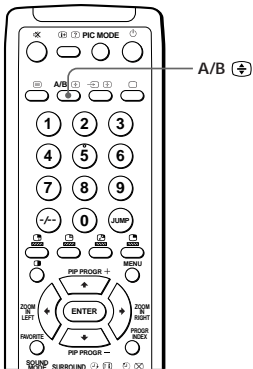
The Virtual Dolby Surround of this model consists of Dolby Pro Logic and TruSurround.

* Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

"TruSurround" is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos.4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents."

Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.



Press A/B repeatedly until you receive the sound mode you want.

The on-screen display changes to show the selected sound mode and the / indicator on the TV lights up red.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo	
NICAM bilingual	
NICAM monaural	

continued

Selecting a stereo or bilingual program (continued)

When receiving an A2 (German) program

Broadcasting	On-screen display (Selected sound)	
A2 (German) stereo	<div> <div>→</div> <div> MONO (Regular sound) </div> <div>→</div> <div> STEREO (Stereo sound) </div> </div>	
A2 (German) bilingual	<div> <div>→</div> <div> MAIN (Main sound) </div> <div>→</div> <div> SUB (Sub sound) </div> </div>	

Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

Notes

- If the signal is very weak, the sound becomes monaural automatically.
- If the stereo sound is noisy when receiving a NICAM program, select "MONO." The sound becomes monaural, but the noise is reduced.

If the sound is distorted or noisy when receiving a monaural program through the 7F (antenna) terminal

Press A/B repeatedly until "MONO" appears on the screen.

To cancel the monaural sound setting, press A/B again until "AUTO" appears on the screen.

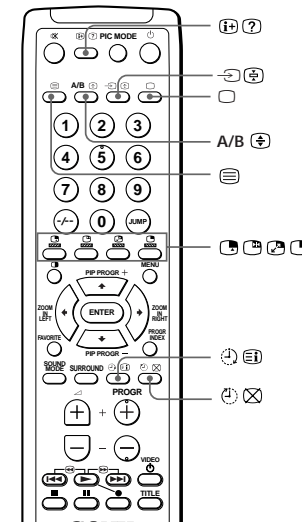


Notes

- The “MONO” or “AUTO” setting is memorized for each program position.
- You cannot receive a stereo broadcast signal when the TV is in the “MONO” setting. Normally, set the TV to “AUTO.”

Viewing Teletext

Some TV stations broadcast an information service called Teletext which allows you to receive various information, such as stock market reports and news.

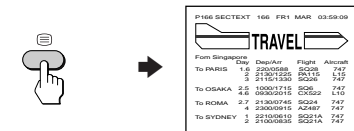


Displaying Teletext

- 1 Select a TV channel that carries the Teletext broadcast you want to watch.

- 2** Press  to display the text.

A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100" is displayed at the top left corner of the screen.



To turn off Teletext

Press \square .

Viewing Teletext (continued)

Additional Teletext tasks

To	Do this
display a Teletext page on the TV picture	Press . Each time you press , the screen changes as follows: Teletext → Teletext and TV → TV.
check the contents of a Teletext service	Press . An overview of the Teletext contents, including page numbers, appears on the screen.
select a Teletext page	Press the number buttons to enter the three-digit page number of the desired Teletext page.* If you make a mistake, reenter the correct page number. To access the next or previous page, press PROGR .
hold (pause) a Teletext page (stop the page from scrolling)	Press to display the symbol "" at the top left corner of the screen. To resume normal Teletext viewing, press or .
reveal concealed information (e.g., an answer to a quiz)	Press . To conceal the information, press the button again.
enlarge the Teletext display	Press A/B . Each time you press A/B , the Teletext display changes as follows: Enlarge upper half → Enlarge lower half → Normal size.
stand by for a Teletext page while watching a TV program	1 Enter the Teletext page number that you want to refer to, then press . 2 When the page number is displayed, press to show the text.

* You can also select a Teletext page of any page number that appears in the colored column at the bottom of the screen using the corresponding color-coded button on the remote.

Using FASTEXT

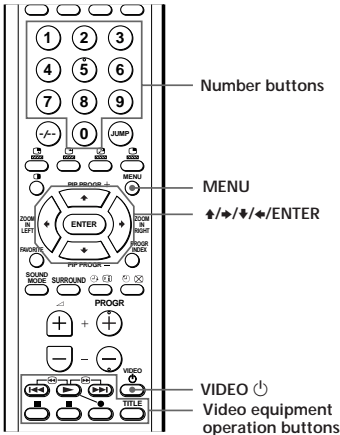
This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcast, colored menus appear at the bottom of the screen. The color of each menu corresponds to the color-coded buttons on the remote (red , green , yellow , and blue .

To access a FASTEXT menu

Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after a few seconds.

Operating optional components

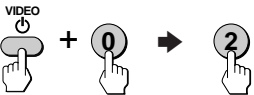
You can use the supplied remote to operate Sony video equipment such as Beta, 8mm, VHS, MDP, CD, or DVD.



Setting up the remote to work with other connected equipment

While holding down **VIDEO** , press the following number combinations to enter the equipment's code number (see the chart below).

For example, to operate a Sony 8 mm VCR:



Code numbers for Sony video equipment

To control	Hold down VIDEO and press
DVD	00
VTR1 (Beta)	01
VTR2 (8mm)	02
VTR3 (VHS)	03
MDP	04
CD	06
MD	07

Notes

- If your video equipment is furnished with a **COMMAND MODE** selector, set this selector to the same position as the setting code.
- If the equipment does not have a certain function, the corresponding button on the remote will not operate.
- When you remove the batteries, the code number may revert to the factory setting.

continued

Operating optional components (continued)

Operating a VCR using the remote

To	Press
turn on/off	VIDEO
record	while pressing .
play	
stop	
fast forward	
rewind the tape	
pause	
	Press again to resume normal playback.
search the picture forward or backward	or during playback. Release to resume normal playback.

Operating a DVD player using the remote

To	Press
turn on/off	VIDEO
play	
stop	
pause	
	Press again to resume normal playback.
step through different tracks of an audio disc	to step forward or to step backward.
display the Title menu	TITLE
display the menu	MENU while holding down .
select the menu item	/// while holding down .

Operating an MDP using the remote

To	Press
turn on/off	VIDEO
play	
stop	
pause	
	Press again to resume normal playback.
search the picture forward or backward	or during playback. Release to resume normal playback.

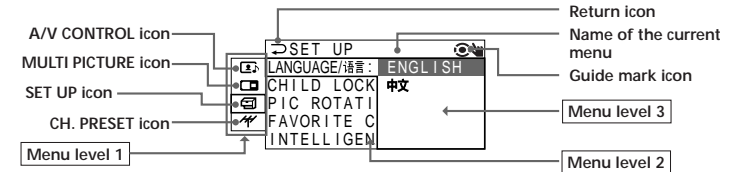
Operating a CD/MD using the remote

To	Press
turn on/off	VIDEO
play	
stop	
pause	
	Press again to resume normal playback.
go to the next/previous tracks	or
go forward/backward quickly in a track	or during playback. Release to resume normal playback.

Adjusting Your Setup (MENU)

Introducing the menu system

The MENU button lets you open a menu and change the settings of your TV. The following is an overview of the menu system.



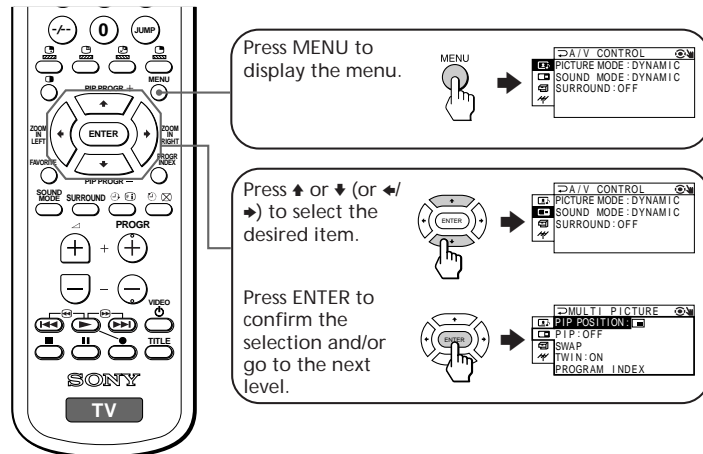
Level 1	Level 2	Level 3/Function
A/V CONTROL	PICTURE MODE	Select the picture mode: DYNAMIC → STANDARD → SOFT → PERSONAL → ADJUST
	ADJUST	Adjust the PERSONAL option: PICTURE → COLOR → BRIGHT → HUE → SHARP
	SOUND MODE	Select the sound mode: DYNAMIC → DRAMA → SOFT → PERSONAL → ADJUST
	ADJUST	Adjust the PERSONAL option: BASS → TREBLE → BALANCE → BBE*
MULTI PICTURE	SURROUND	Select the surround mode: VIRTUAL → TruSurround → SIMULATED → OFF
	PIP POSITION	Change the position of the sub screen.
	PIP	Activate or deactivate the PIP feature.
	SWAP	Swap the pictures between the main and sub screens.
SET UP	TWIN	Display a TV program or video beside the main screen.
	PROGRAM INDEX	Display all the preset TV programs at the same time.
	LANGUAGE/语言	Change the menu language: ENGLISH ↔ 中文 (CHINESE)
	CHILD LOCK	Lock out specific channels.
CH. PRESET	PIC ROTATION	Rotate the picture.
	FAVORITE CH	Set favorite channels.
	INTELLIGENT VOL	Adjust the volume automatically.
	AUTO PROGRAM	Preset channels automatically.
	MANUAL PROGRAM	Preset channels manually.
	SKIP	Skip unwanted or unused program numbers.
	TV SYS	Select the TV system: AUTO → B/G → I → D/K → M
	COL SYS	Select the color system: AUTO → PAL → SECAM → NTSC3.58 → NTSC4.43

* The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word "BBE" and the BBE symbol are the trademarks of BBE Sound, Inc.

continued

Introducing the menu system (continued)

How to use the menu



Other menu operations

To	Press
Adjust the setting value	\uparrow/\downarrow or \leftarrow/\rightarrow
Move to the next/previous menu level	\rightarrow or \leftarrow
Cancel the menu	MENU

Tips

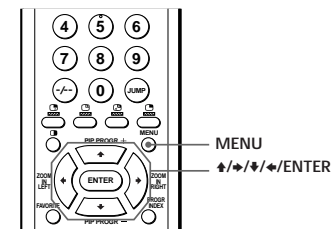
- If you want to exit from Menu level 2 to Menu level 1, press \uparrow or \downarrow until the return icon (⏮) is highlighted, then press ENTER.
- The MENU, ENTER, and \pm buttons on the TV can also be used for the operations above.

Note

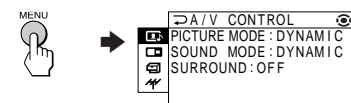
- If more than 60 seconds elapse between entries, the menu screen automatically disappears.

Changing the A/V CONTROL setting

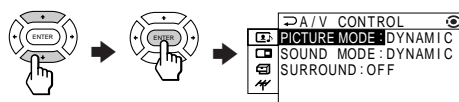
The A/V CONTROL menu allows you to adjust the picture and sound settings.



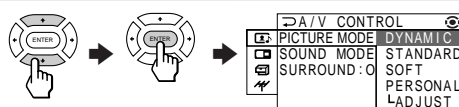
1 Press MENU.



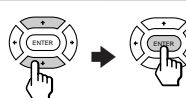
2 Press \uparrow or \downarrow to select \leftarrow/\rightarrow , then press ENTER.



3 Press \uparrow or \downarrow to select either PICTURE MODE, SOUND MODE, or SURROUND, then press ENTER.



4 Press \uparrow or \downarrow to select the desired option, then press ENTER.



For	Select
PICTURE MODE	either DYNAMIC, STANDARD, SOFT, PERSONAL*, or ADJUST.
SOUND MODE	either DYNAMIC, DRAMA, SOFT, PERSONAL*, or ADJUST.
SURROUND	either \square VIRTUAL, TruSurround, SIMULATED, or OFF.

* When the PERSONAL mode is selected, the last adjusted picture/sound settings from the ADJUST option are received (see next page).

Tip

- For details on the options under the PICTURE/SOUND MODE and SURROUND modes, see pages 12 and 20 respectively.

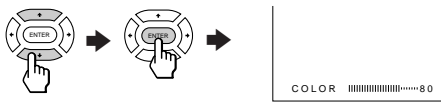
To return to the normal screen

Press MENU.

Adjusting Your Setup (MENU) 29

Changing the A/V CONTROL setting (continued)

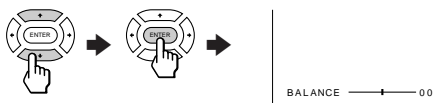
Adjusting the ADJUST options under PICTURE MODE

- Press \blacktriangle or \blacktriangledown to select the desired item (e.g., COLOR), then press ENTER.
 
- Adjust the value according to the following table, then press ENTER.

For	Press $\blacktriangle/\blacktriangledown$ to	Press $\blacktriangle/\blacktriangledown$ to
PICTURE	decrease picture contrast	increase picture contrast
COLOR	decrease color intensity	increase color intensity
BRIGHT	darken the picture	brighten the picture
HUE*	increase red picture tones	increase green picture tones
SHARP	soften the picture	sharpen the picture

* You can adjust HUE for the NTSC color system only.
- Repeat the above steps to adjust other items.
The adjusted settings will be received when you select PERSONAL.

Adjusting the ADJUST options under SOUND MODE

- Press \blacktriangle or \blacktriangledown to select the desired item (e.g., BALANCE), then press ENTER.
 
- Adjust the value according to the following table, then press ENTER.

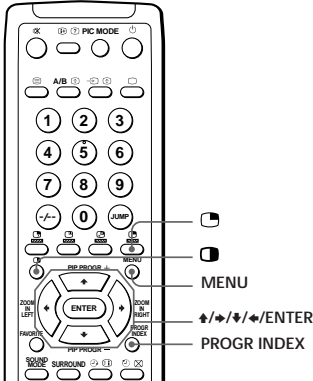
For	Press
BASS	$\blacktriangle/\blacktriangledown$ to decrease the bass, $\blacktriangle/\blacktriangledown$ to increase the bass
TREBLE	$\blacktriangle/\blacktriangledown$ to decrease the treble, $\blacktriangle/\blacktriangledown$ to increase the treble
BALANCE	$\blacktriangle/\blacktriangledown$ to increase the left speaker's volume, $\blacktriangle/\blacktriangledown$ to increase the right speaker's volume
BBE	$\blacktriangle/\blacktriangledown$ to select HIGH, LOW, or OFF. BBE can produce clear sound, emphasizing both low and high tones.
- Repeat the above steps to adjust other items.
The adjusted settings will be received when you select PERSONAL.

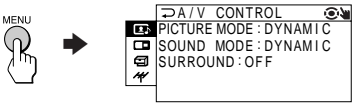

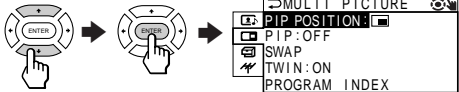
Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 27.

Changing the MULTI PICTURE setting


The MULTI PICTURE menu allows you to use the Picture-in-Picture (PIP), TWIN pictures, or PROGRAM INDEX features.



- Press MENU.
 
- Press \blacktriangle or \blacktriangledown to select , then press ENTER.
 

continued

Changing the MULTI PICTURE setting (continued)

- 3 Press or to select the desired option (see the table below), then press ENTER.
- 

Select	To
PIP POSITION	change the position of the PIP screen. Press or to select the desired position, then press ENTER.
PIP	display the PIP screen within the main picture. Press or to select "ON," then press ENTER. To cancel, press or select "OFF," then press ENTER.
SWAP	swap the main and PIP screens, or right and left pictures of the TWIN pictures.
TWIN	display a different TV program or video beside the main picture. Press or to select "ON," then press ENTER. To cancel, press or select "OFF," then press ENTER.
PROGRAM INDEX	view multiple programs on the sub-screens. To cancel, press PROGR INDEX.

To return to the normal screen

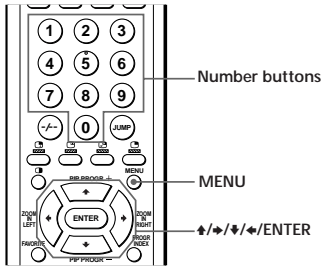
Press MENU.

Tip

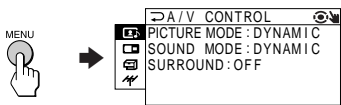
- For details on the menu system and how to use the menu, see "Introducing the menu system" on page 27.

Changing the SET UP setting

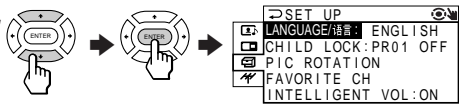
The SET UP menu allows you to:
change the menu language (see page 11),
block channels, adjust the picture
position, program your favorite
channels, and adjust the volume
automatically.



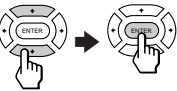
- 1 Press MENU.



- 2 Press or to select then press ENTER.



- 3 Press or to select the desired option, then press ENTER.



Select	To
LANGUAGE/ 语言	change the menu language (see page 11).
CHILD LOCK	block channels (see page 34).
PIC ROTATION	adjust the picture position when it is not aligned with the TV screen. Press or to adjust the position clockwise, then press ENTER. Press or to adjust the position counterclockwise, then press ENTER.
FAVORITE CH	select your favorite channels (see page 35).
INTELLIGENT VOL	adjust the volume of each TV program automatically. Press or to select "ON," then press ENTER. To cancel, select "OFF," then press ENTER.

To return to the normal screen

Press MENU.


continued

Changing the SET UP setting (continued)

Blocking the channels (CHILD LOCK)

- After selecting CHILD LOCK, press either or , or the number buttons (or PROGR +/-) to select the desired channel, then press ENTER.

▷ SET UP	
LANGUAGE/語言:	PR 02
CHILD LOCK	PR 02
PIC ROTATI	ON
FAVORITE CH	OFF
INTELLIGEN	OFF
- Press or to select ON, then press ENTER. To unlock the channel, select OFF.

The lock symbol () appears on the screen when ON is selected.

▷ SET UP	
LANGUAGE/語言:	ENGLISH
CHILD LOCK	PR06 ON
PIC ROTATION	
FAVORITE CH	
INTELLIGENT VOL	ON

If a locked channel is selected, the lock symbol appears on the screen.
- Repeat steps 1 and 2 to lock other channels.

To return to the normal screen
Press MENU.

Changing the favorite channel setting

- After selecting FAVORITE CH, make sure MODE is selected, then press ENTER.

▷ FAVORITE CH	
MODE:	AUTO
1. PR01	MANUAL
2. PR02	
3. PR06	
4. PR08	
- Press or to select MANUAL, then press ENTER.

▷ FAVORITE CH	
MODE:	MANUAL
1. PR01	5. PR09
2. PR02	6. PR11
3. PR06	7. PR13
4. PR08	
- Press or to select the program you want to change, then press ENTER.

▷ FAVORITE CH	
MODE:	MANUAL
1. PR01	5. PR09
2. PR02	6. PR11
3. PR06	7. PR13
4. PR08	
- Press or to change the number, then press ENTER.

▷ FAVORITE CH	
MODE:	MANUAL
1. PR01	5. PR09
2. PR02	6. PR11
3. PR06	7. PR13
4. PR08	
- Repeat steps 3 and 4 to set other channels.

To return to the normal screen

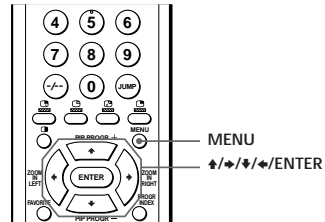
Press MENU.

Note

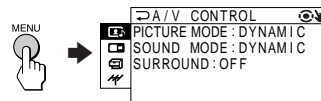
- If you press the PROGR +/- buttons or number buttons in step 4 above, the TV will tune into the channel.

Changing the CH. PRESET setting

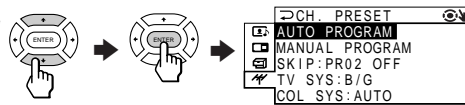
The CH. PRESET menu allows you to adjust the setup of your TV. For example, you can manually tune in a channel with a weak signal that fails to be tuned in by automatic presetting.



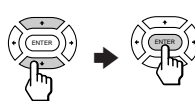
1 Press MENU.



2 Press ▲ or ▼ to select , then press ENTER.



3 Press ▲ or ▼ to select the desired option, then press ENTER.



Select	To
AUTO PROGRAM	preset channels automatically.
MANUAL PROGRAM	preset channels manually. See "Presetting channels manually" on page 37.
SKIP	skip unwanted or unused channel. 1 Press either ▲ or ▼, or the number buttons (or PROGR +/-) until the unused or unwanted channel number appears, then press ENTER. 2 Select "ON," then press ENTER. 3 To disable other channels, repeat steps 1 and 2. To restore the skipped channel, select "OFF" in step 2.
TV SYS	select the TV system.
COL SYS	select the color system. Normally, set this to "AUTO."

To return to the normal screen

Press MENU.

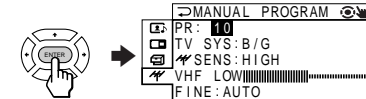
Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 27.

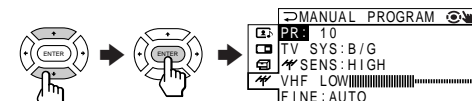
Presetting channels manually

1 After selecting MANUAL PROGRAM, select the program number to which you want to preset a channel.

- (1) Make sure "PR" is selected, then press ENTER.



- (2) Press ▲ or ▼ until the program number you want to preset (e.g., program number 10) appears on the menu, then press ENTER.



Tip

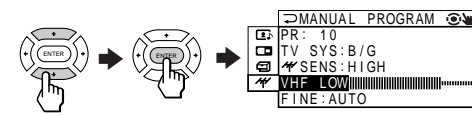
- You can also select the program number with the PROGR +/- or number buttons.

2 Select the desired channel.

- (1) Press ▲ or ▼ to select either VHF LOW, VHF HIGH, or UHF, then press ENTER.

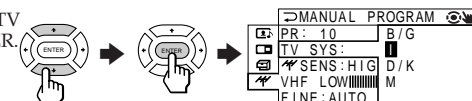


- (2) Press ▲ or ▼ until the desired channel's broadcast appears on the TV screen, then press ENTER.

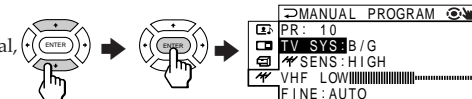


3 If the sound of the desired channel is abnormal, select the appropriate TV system.

- (1) Press ▲ or ▼ to select TV SYS, then press ENTER.



- (2) Press ▲ or ▼ until the sound becomes normal, then press ENTER.

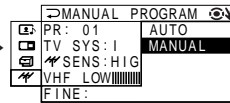
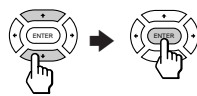


continued

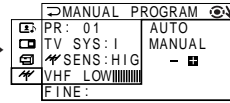
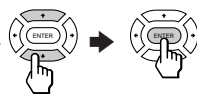
Changing the CH. PRESET setting (continued)

- 4** If you are not satisfied with the picture and sound quality, you may be able to improve them by using the FINE tuning feature.

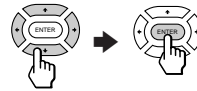
- (1) Press \blacktriangle or \blacktriangledown to select FINE, then press ENTER.



- (2) Press \blacktriangle or \blacktriangledown to select MANUAL, then press ENTER.

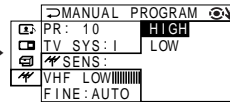
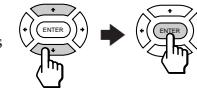


- (3) Press either \blacktriangle , \blacktriangleright , \blacktriangledown , or \blacktriangleleft until the picture and sound quality are optimal, then press ENTER. The + or - icon on the menu flashes while tuning.

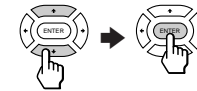


- 5** If the TV signal is too strong and the picture is distorted, you can adjust the TV reception sensitivity.

- (1) Press \blacktriangle or \blacktriangledown to select SENS, then press ENTER.



- (2) Press \blacktriangle or \blacktriangledown to select LOW, then press ENTER.



To return to the normal screen

Press MENU.

Notes

- The TV system (TV SYS) and the TV reception sensitivity (SENS) settings are memorized for each program number.
- If you preset a locked channel, that channel will be unlocked.

Additional Information







Troubleshooting


If you have any problem while viewing your TV, please check the following troubleshooting guide. If the problem persists, contact your Sony dealer.

Symptom	Solutions	Possible cause
Snowy picture 	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR, and at the wall. (page 4) Display the CH. PRESET menu and select "MANUAL PROGRAM" to preset the channel again. (page 37) 	<ul style="list-style-type: none"> The connection is loose or the cable is damaged. The channel presetting is inappropriate or incomplete.
Noisy sound 	<ul style="list-style-type: none"> Check the antenna type (VHF/UHF). Contact a Sony dealer for advice. Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. 	<ul style="list-style-type: none"> The antenna type is inappropriate. The antenna direction needs adjustment. Signal transmission is low.
Distorted picture 	<ul style="list-style-type: none"> Display the CH. PRESET menu and select "MANUAL PROGRAM." Then, select "SENS: LOW." (page 38) Turn off or disconnect the booster if it is in use. 	<ul style="list-style-type: none"> Broadcast signals are too strong.
Noisy sound 		
Good picture 	<ul style="list-style-type: none"> If the sound of all the channels is noisy, display the CH. PRESET menu and select the appropriate TV system (TV SYS), then select "AUTO PROGRAM" to preset the channels again. (page 36) If the sound of some channels is noisy, select the channel, then display the CH. PRESET menu and select the appropriate TV system (TV SYS). (page 37) 	<ul style="list-style-type: none"> The TV system setting is inappropriate.
Noisy sound 		
No picture 	<ul style="list-style-type: none"> Check the power cord, antenna, and the VCR connections. Press Power (power). Press Main Power (main power) on the TV to turn off the TV for about five seconds, then turn it on again. 	<ul style="list-style-type: none"> The power cord, antenna, or VCR is not connected. The TV is not turned on.
No sound 		

continued

Troubleshooting (continued)

Symptom	Solutions	Possible cause
Good picture 	<ul style="list-style-type: none"> Press \triangle + to increase the volume level. Press \times to cancel the muting. Press A/B \oplus until better sound is heard. 	<ul style="list-style-type: none"> The volume level is too low. The sound is muted. The broadcast signal has a transmission problem.
No sound 		
Dotted lines or stripes 	<ul style="list-style-type: none"> Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc.
Double images or "ghosts" 	<ul style="list-style-type: none"> Use a highly directional antenna. Adjust the antenna direction. Contact a Sony dealer for advice. Turn off or disconnect the booster if it is in use. 	<ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. The antenna direction needs adjustment. Use of a booster is inappropriate.
No color 	<ul style="list-style-type: none"> Display the A/V CONTROL menu and select "ADJUST" in PICTURE MODE, then adjust the COLOR level. (page 30) Display the CH. PRESET menu and check the color system (COL SYS) setting (usually set this to AUTO). (page 36) Adjust the antenna direction. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> The color level setting is too low. The color system setting is inappropriate. The antenna direction needs adjustment.
Abnormal color patches 	<ul style="list-style-type: none"> Locate external speakers or other equipment away from the TV. Press $\textcircled{1}$ (main power) on the TV to turn off the TV for about five minutes, then turn it on again. 	<ul style="list-style-type: none"> There is magnetic disturbance from external speakers or other equipment.
TV cannot receive stereo broadcast signal.	<ul style="list-style-type: none"> Press A/B \oplus until "AUTO" appears on the screen. 	<ul style="list-style-type: none"> The stereo reception setting is inappropriate.

Symptom	Solutions	Possible cause
Stereo broadcast sound switches on and off or is distorted.	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR, and on the wall. Adjust the antenna direction. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> The connection is loose or the cable is damaged. The antenna direction needs adjustment.
OR The sound switches between stereo and monaural frequently.	<ul style="list-style-type: none"> Press A/B \oplus until better sound is heard. (page 21) 	<ul style="list-style-type: none"> The broadcast signal has a transmission problem.
"100" appears on the top of the screen and there is no Teletext display.	—	<ul style="list-style-type: none"> The channel carries no Teletext broadcast.
Teletext display is incomplete (snowy picture or double images).	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR, and at the wall. (page 4) Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. 	<ul style="list-style-type: none"> The connection is loose or the cable is damaged. The antenna direction needs adjustment. The signal transmission is too low.
Picture slant 	<ul style="list-style-type: none"> Display the SET UP menu and adjust "PIC ROTATION" so that the picture is aligned to the TV screen. (page 33) 	<ul style="list-style-type: none"> Terrestrial magnetism is affecting your TV set.
TV cabinet creaks.	—	<ul style="list-style-type: none"> Changes in room temperature sometimes make the TV cabinet expand or contract, causing a noise. This does not indicate a malfunction.
A small "boom" sound is heard when the TV is turned on.	—	<ul style="list-style-type: none"> The TV's demagnetizing function is working. This does not indicate a malfunction.

Troubleshooting shortcuts

For better viewing, check the following connections.

Antenna connection

Check the antenna direction.
Incorrect antenna direction may cause:

- Snowy picture
- Distorted picture
- Noisy/distorted sound

Check the antenna type.
Wrong type of antenna may cause:

- No picture
- Snowy picture

Check the connection on the wall antenna terminal.
Loose connection may cause:

- Snowy picture
- Distorted sound

Check if you need a booster to increase the signal level.
Too strong signal levels may cause:

- Distorted picture
- Noisy sound

AC Connection

• Double image picture

• Missing Teletext characters

Check the connection on the AC socket.
Loose connection may cause:



- no power
- no picture with no sound

Check the connection on the VCR and on the TV.
Loose connection may cause:

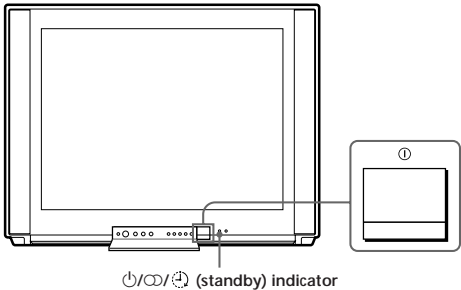
- Snowy picture
- Distorted sound
- No picture




For more information, refer to "Troubleshooting" on page 39, or consult your dealer for guidance.

Self-diagnosis function

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the  (standby) indicator flashes red. The number of times the  indicator flashes indicates the possible causes.

Front of TV

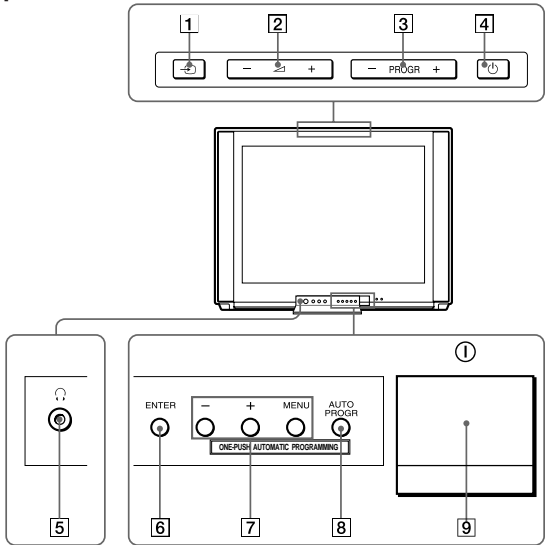










- 1 Check that the red flashes of the  indicator are about 3 seconds per interval.
- 2 Count the number of times the  indicator flashes.
- 3 Press ① (main power) to turn off your TV.
- 4 Inform your nearest Sony service center about the number of times the  indicator flashed. Be sure to note the model name and serial number located on the rear of your TV.

Identifying parts and controls

Refer to the pages indicated in parentheses () for details.

Front panel

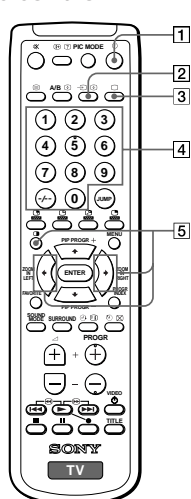


- 1  (TV/video) button (10)
- 2  +/- (volume) buttons (10)
- 3  PROGRAM +/- (program) buttons (9)
- 4  (power) button (9)
- 5  (headphones) jack
- 6  ENTER button (28)
- 7  MENU +/- buttons (28)
- 8  AUTO PROGRAM (program) button (5)
- 9 ① (main power) button (9)

continued

Identifying parts and controls (continued)

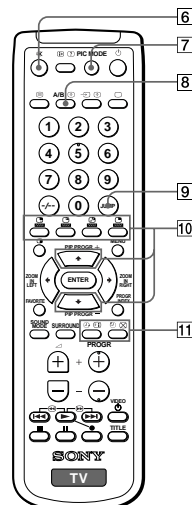
Remote control



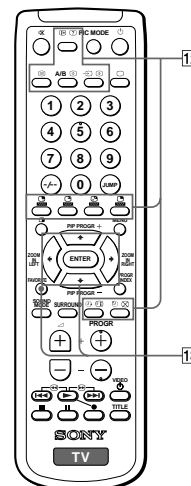
- 1 (power) button (9)
- 2 (video) button (10)
- 3 (TV) button (10)
- 4 Number buttons (9)
- 5 TWIN pictures operation buttons (15 – 16)
 - (TWIN)
 - ZOOM IN LEFT
 - ZOOM IN RIGHT

The names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

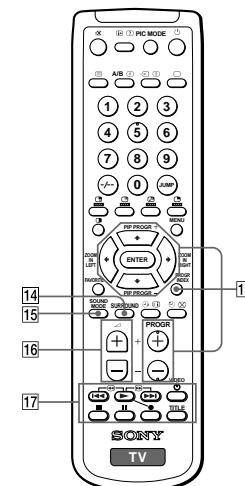
Label color	Button function
White	For general TV and PROGRAM INDEX operations
Green	For Teletext operations
Yellow	For PIP operations



- 6 (muting) button (10)
- 7 PIC MODE button (12)
- 8 A/B button (21)
- 9 JUMP button (10)
- 10 PIP operation buttons (15 – 16)
 - (TV/video)
 - (freeze)
 - (swap)
 - (PIP)
 - for changing PIP PROGR
- 11 Timer setting buttons (13)
 - (wake up timer)
 - (sleep timer)



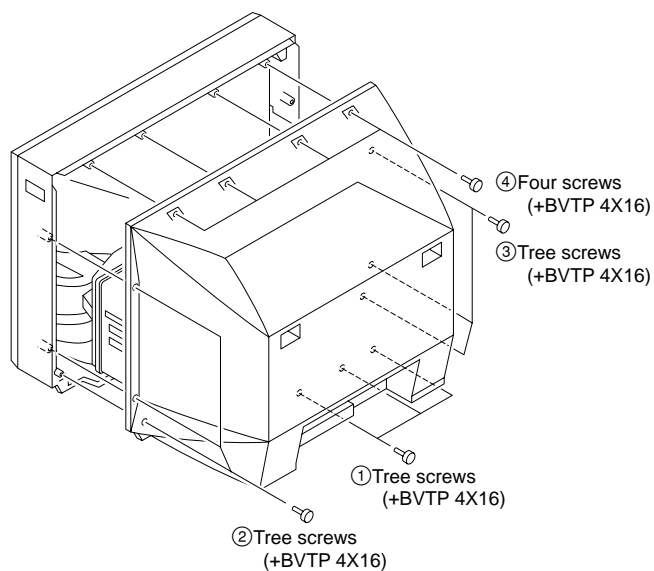
- 12 Teletext operation buttons (23– 24)
 - (text)
 - (enlarge)
 - (reveal)
 - (hold)
 - Red
 - Green
 - Yellow
 - Blue
 - (index)
 - (text clear)
- 13 FAVORITE button (14)
 - /ENTER



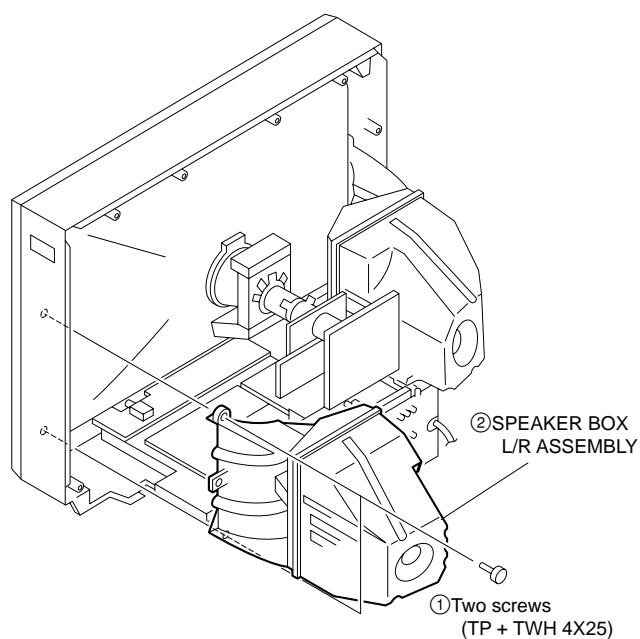
- 14 SURROUND button (20)
- 15 SOUND MODE button (12)
- 16 (volume) +/- buttons (10)
- 17 DVD, VCR, MDP, CD, MD operation buttons (26)
 - (fastforward/search forward)
 - (play)
 - (rewind/search backward)
 - (record)
 - (stop)
 - (pause)
 - VIDEO (power)
 - TITLE
- 18 PROGRAM INDEX operation buttons (17 – 19)
 - PROGR INDEX
 - /ENTER
 - PROGR +/-

SECTION 2 DISASSEMBLY

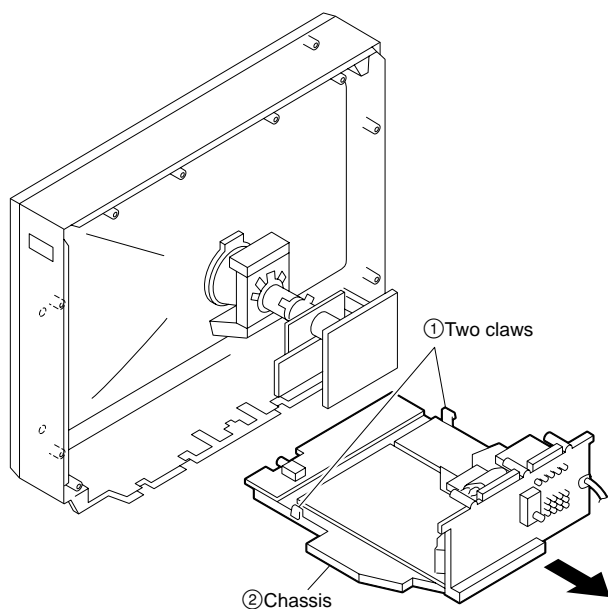
2-1. REAR PANEL REMOVAL



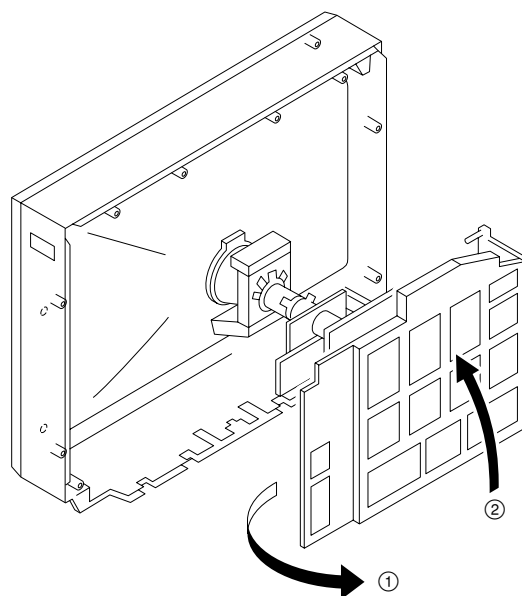
2-2. SPEAKER BOX REMOVAL



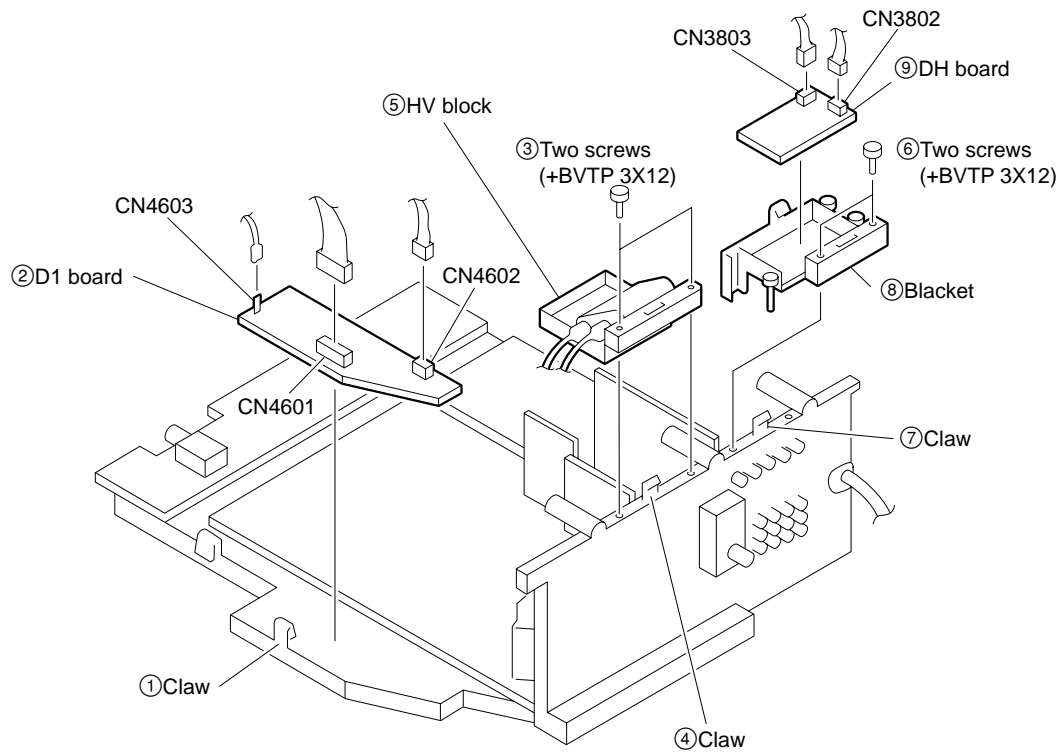
2-3. CHASSIS ASSY REMOVAL



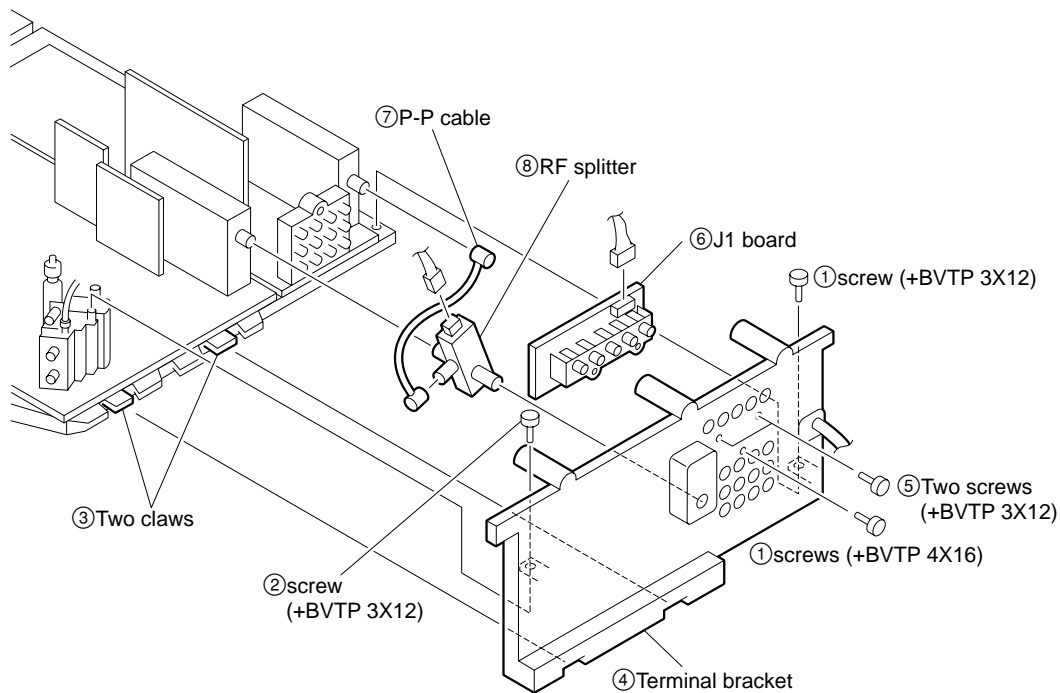
2-4. SERVICE POSITION



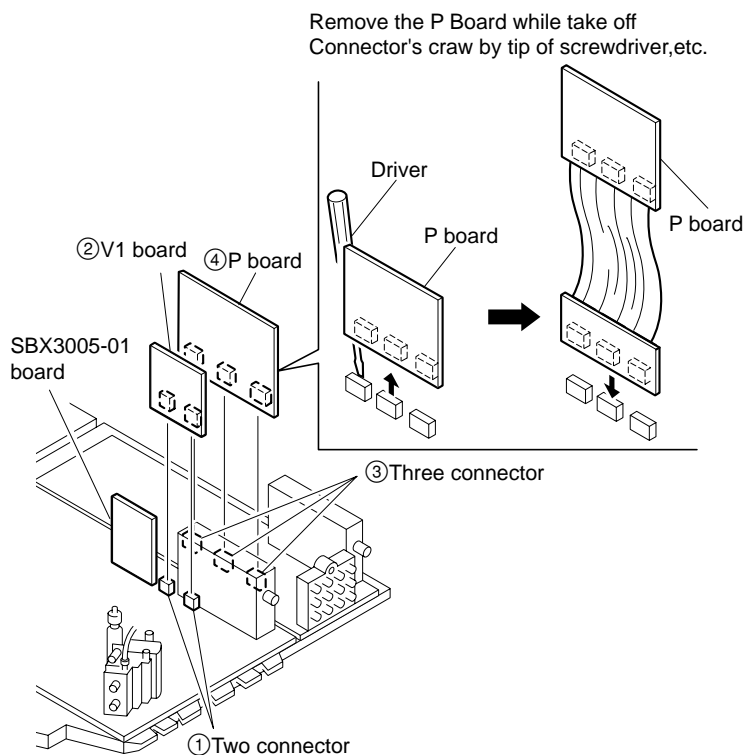
2-5. D1 AND DH BOARDS REMOVAL



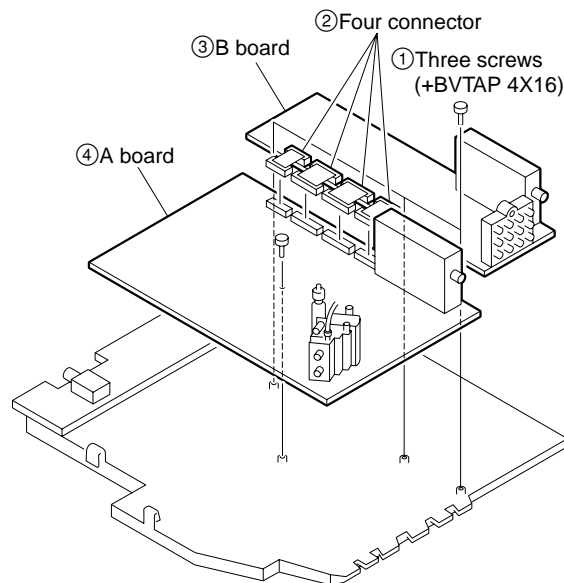
2-6. J1 BOARD AND RF SPLITTER REMOVAL



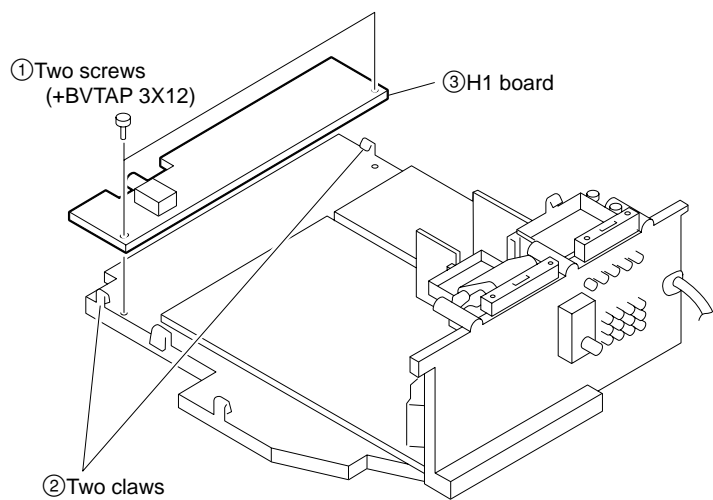
2-7. V1 AND P BOARDS REMOVAL



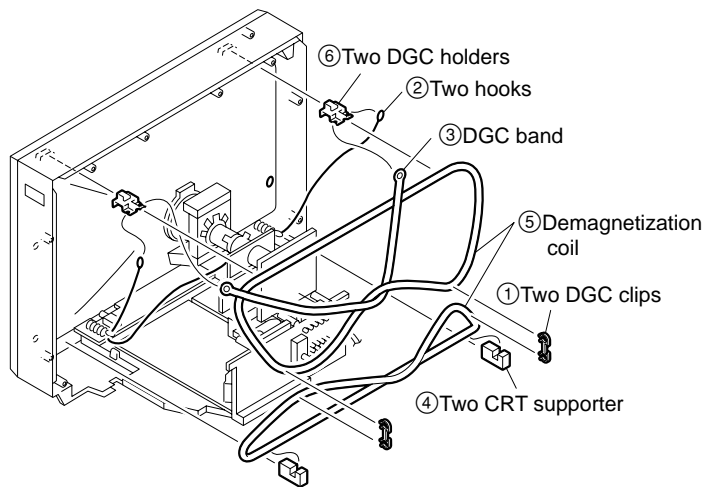
2-8. A AND B BOARDS REMOVAL



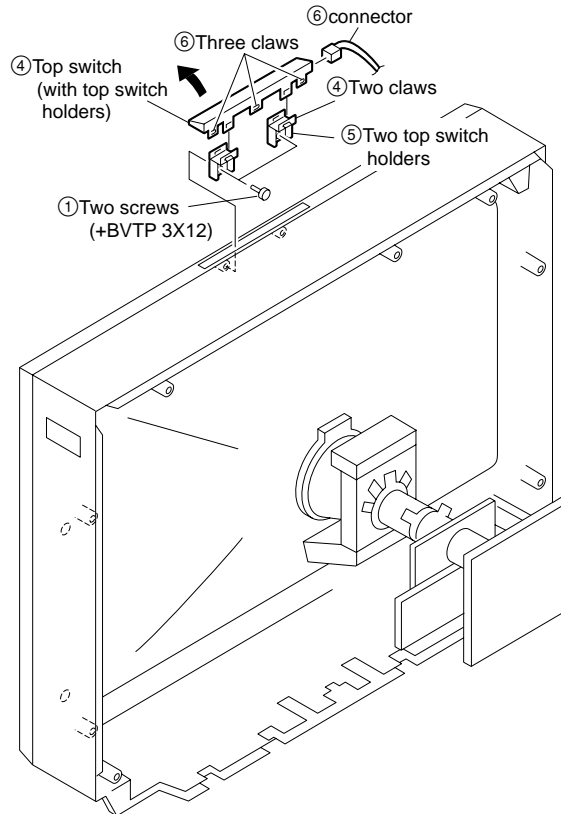
2-9. H1 BOARD REMOVAL



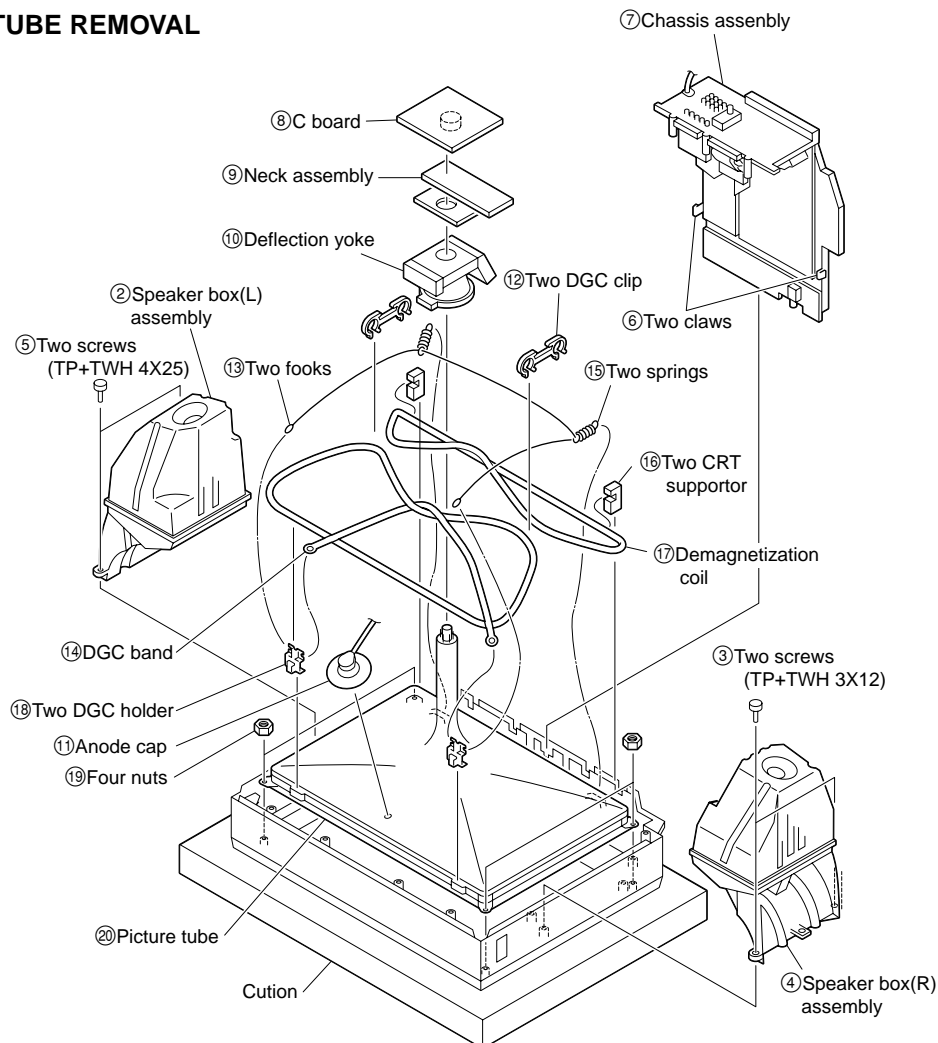
2-10. DEMAGNETIZATION COIL REMOVAL



2-11. TOP SWITCH REMOVAL



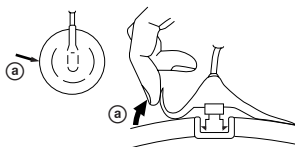
2-12. PICTURE TUBE REMOVAL



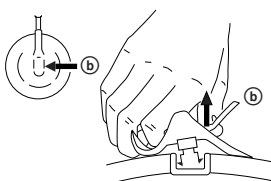
•REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

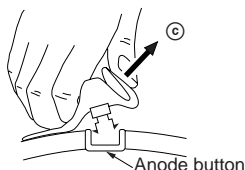
•REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.



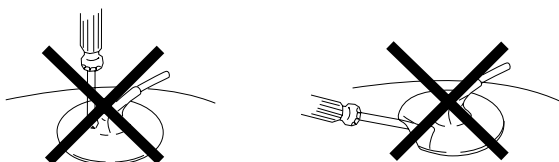
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-cap.
A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard.
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control normal

BRIGHTNESS control normal

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING ADJUSTMENT

1. Input a white signal with the pattern generator.
 Contrast } normal
 Brightness }
2. Position neck assy as shown in Fig3-1.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
 (See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-2.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
 (See Figure 3-4.)

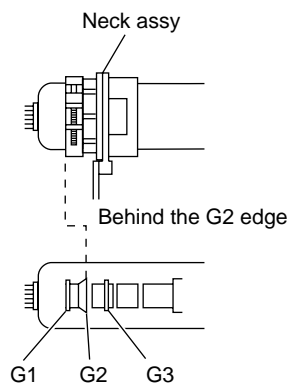


Fig. 3-1

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

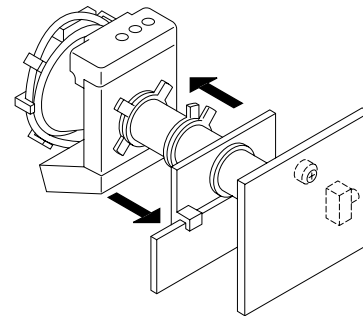


Fig. 3-2

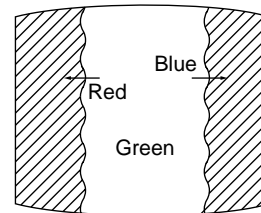


Fig. 3-3

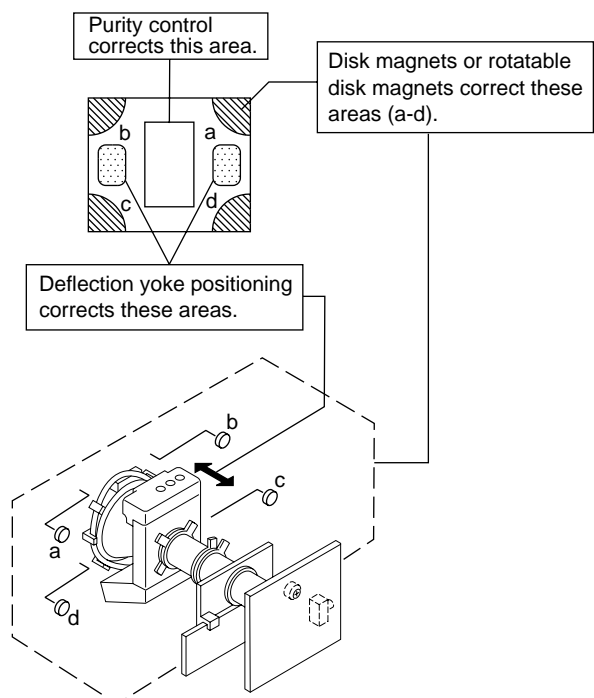


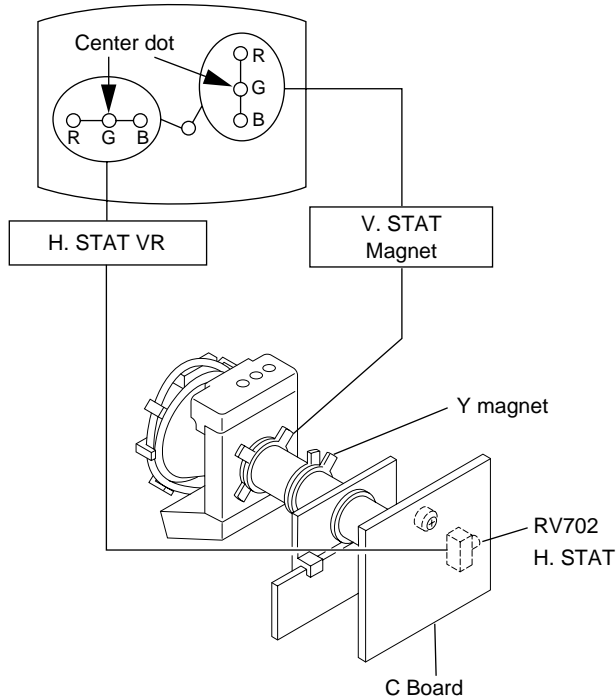
Fig. 3-4

3-2. CONVERGENCE ADJUSTMENT

Preparation :

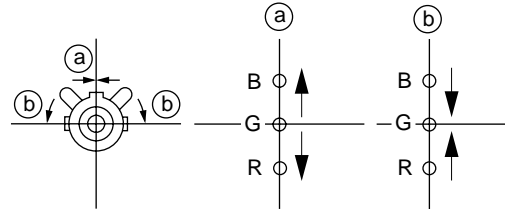
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Set the PICTURE and BRIGHTNESS 50%.
- Cross hatch / Dot pattern.

(1) Horizontal and Vertical Static Convergence

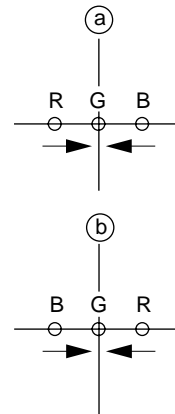


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

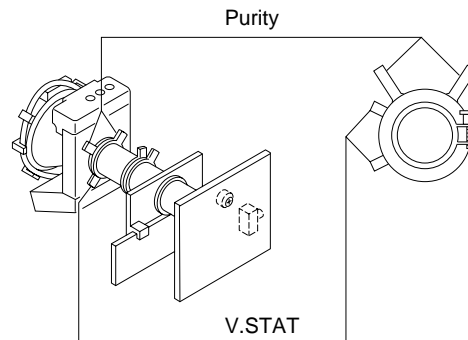
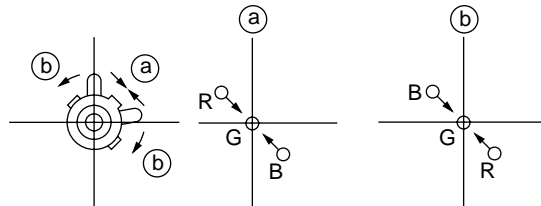
① V. STAT



② H. STAT VR

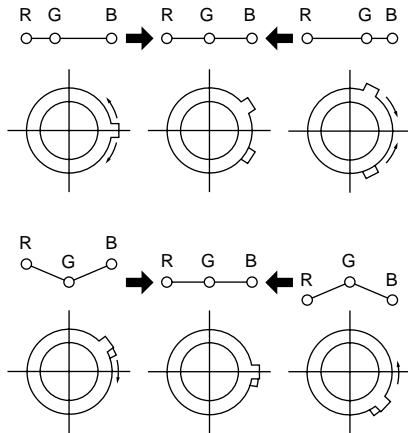


③



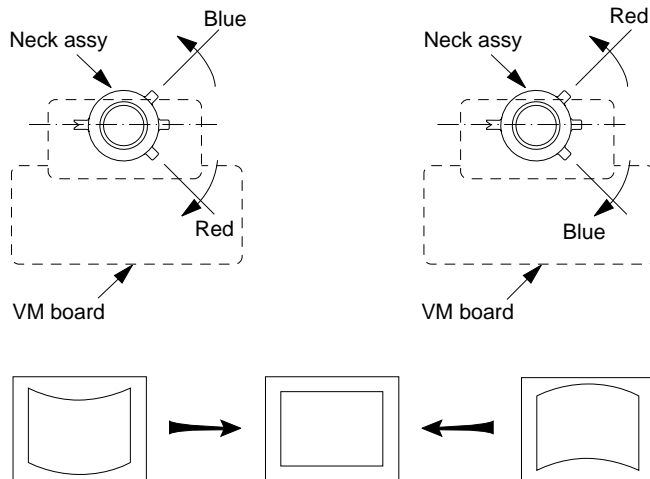
④ BMC (Hexapole) Magnet.

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



⑤ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .
2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.

**Note**

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment

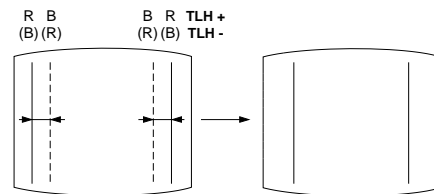
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence
- Set the PICTURE and BRIGHTNESS to normal.

1. Adjust TLH. (TLH correction piece)

- ① Receive the dot/hatch pattern signal and adjust picture quality by the menu.
- ② Correct horizontal mis-convergence of red and blue of both sides on the X axis.

When red is outside insert BMC magnet to right side (THL+) views from DY neck. And when blue is outside, insert it to left side (THL-) and take both sides.

**2. Adjust XCV core.**

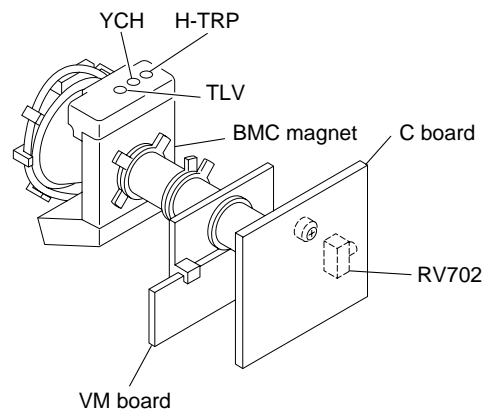
To able to become balance of XCV on the X axis well.

3. Adjust V-TILT.

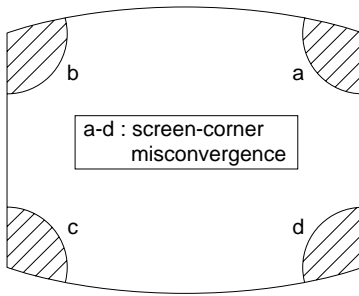
Correct the vertical mis-convergence of red and blue of vertically sides on the Y axis.

4. Adjust YCH.

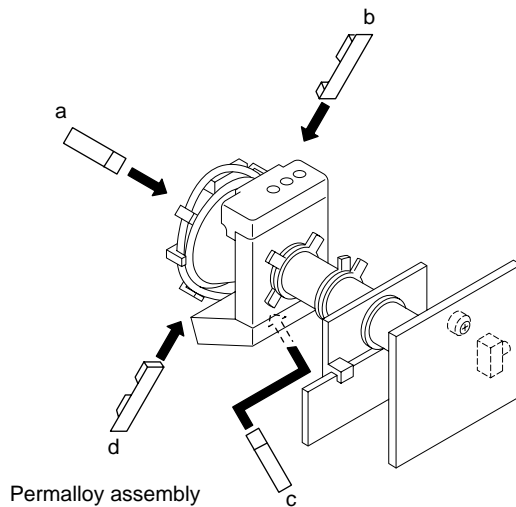
Adjust horizontal mis-convergence of red and blue of vertically sides on the Y axis. Mentioned above steps 2 to 4 are adjusting respectively perform minuteness tracking.



(3) Screen-corner Convergence



Fix a Permalloy assy corresponding to the misconverged areas.

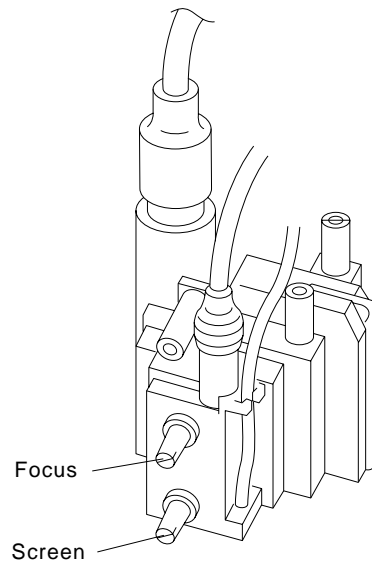


3-3. FOCUS ADJUSTMENT

Note

Focus adjustment should be completed before W/B adjustment.

- (1) Receive digital monoscope pattern.
- (2) Set "A/V CONTROL" to "STANDARD".
- (3) Adjust FOCUS VR so that the center of the screen becomes just focus.
- (4) Change the receiving signal to white pattern and blue back.
- (5) Confirm MAGENTA RING should not be over the limit sample. In case MAGENTA RING is over the limit sample, adjust FOCUS VR to take tracking of MAGENTA RING and FOCUS.



FLYBACK TRANSFORMER (T503)

3-4. NECK ASSY TWIST ADJUSTMENT

- (1) Receive dot/hatch pattern.
- (2) Turn FOCUS VR fully counter-clockwise.
- (3) Confirm the dot shape at the screen center. (Fig. 3-4)
- (4) Resume FOCUS VR.

Note

In case of turning NECK ASSY, loosen the screw 3 turns. Do not move the position.

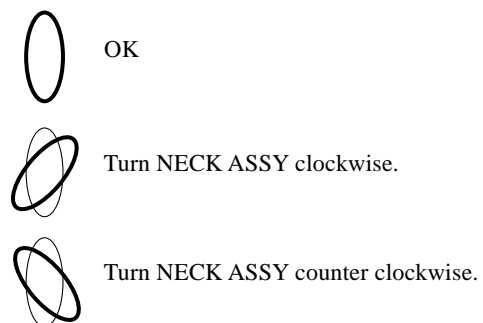
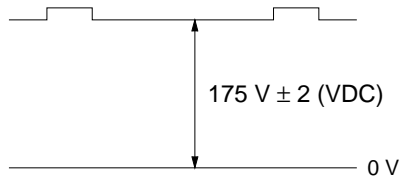


Fig. 3-4

3-5. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

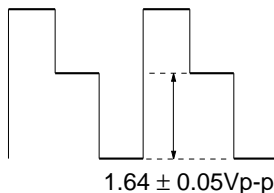
1. G2 (SCREEN) ADJUSTMENT

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO input mode without signals.
- 3) Connect R, G and B of the C board cathode to the oscilloscope.
- 4) Adjust G2 (Screen) volume to the value below.



2. DRIVE LEVEL ADJUSTMENT

- 1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input PAL Colorbar Signal.
- 3) Set to VP7 (Service Mode) "DYC" = 0.
- 4) Set VP22 GON to "0", VP23 BON to "0".
- 5) Set to A/V mode to "PERSONAL".
- 6) Connect an oscilloscope to pin ② of CN705 on the C board.
- 7) Set the picture to maximum and Brightness to minimum.
Enter into the Service Mode.
- 8) Using the [1] and [4] buttons select SAJ0 "PMX".
- 9) Using the [3] and [6] buttons on the Remote Commander adjust until the oscilloscope waveform has an amplitude of $1.64 \pm 0.05\text{Vp-p}$.



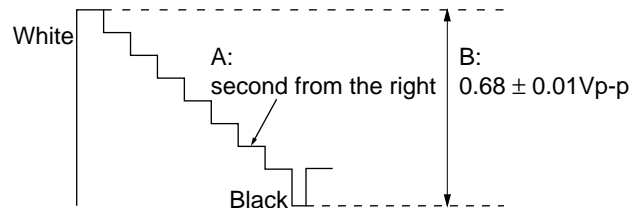
- 10) Reset to VP7 "DYC" = 1 and VP22 "GON" to 1, VP23 BON to "1".

3. WHITE BALANCE ADJUSTMENT

- 1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input white raster signal.
- 3) Set the following condition.
PICTURE minimum, BRIGHTNESS 50%
- 4) Select GCT (WHB 4) and BCT (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 5) Set the PICTURE to maximum.
- 6) Select GDR (WHB 1) and BDR (WHB 2) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 7) Write into the memory by pressing [MUTING] then [0].

4. SUB PICTURE BRIGHTNESS ADJUSTMENT

- 1) Set to service mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input a PAL RF colorbar signal through Sub TUNER (TU3301).
- 3) BRIGHTNESS RESET.
PICTURE MINIMUM
- 4) A: Select SBR (WHB7) with [1] and [4], and adjust SBR (WHB7) level with [3] and [6] so that the second stripe from the right is dimly lit.
B: Adjust RV5301 on B board so that the level of CN1310 ⑩ pin is within spec.

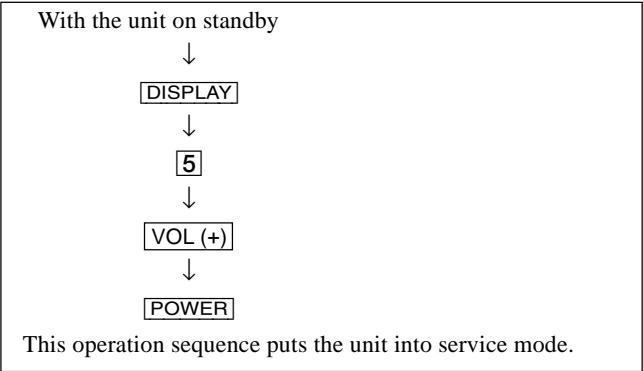


SECTION 4
CIRCUIT ADJUSTMENTS

4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-951 that comes with this unit.

a. ENTERING SERVICE MODE



b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press **POWER** button on the commander), then press **POWER** button again, hereupon it becomes TV mode.

c. METHOD OF WRITE INTO MEMORY

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustment.
- 3) Press **MUTING** button and it will indicate WRITE on the screen.
- 4) Press **0** button to write into memory.

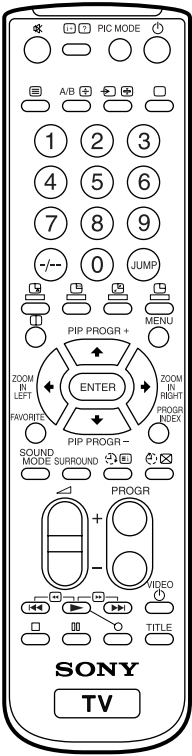
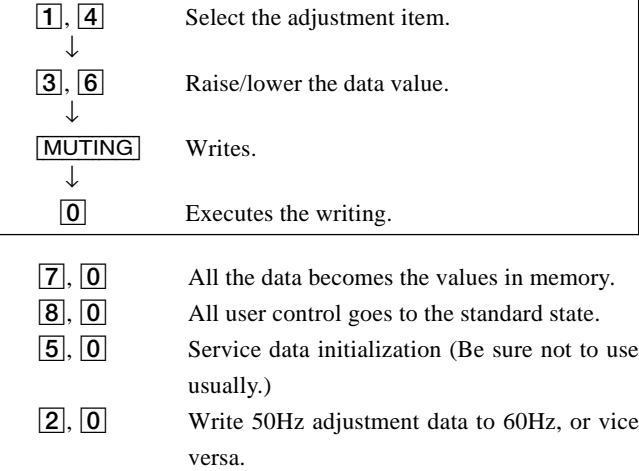
d. MEMORY WRITE CONFIRMATION METHOD

- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm adjustments were made.

The screen display is :

Device Name	Item Name	Item No	Data	Marking of virgin NVM	Mode	
GEO		00	HPS	1C	■	SERVICE 50 ←
601S		1.0C	59	7F	0	000A
Suffix No (OEM Code)	Software version				Total Power-On time (hours)	

PAL, SECAM : 50
NTSC : 60



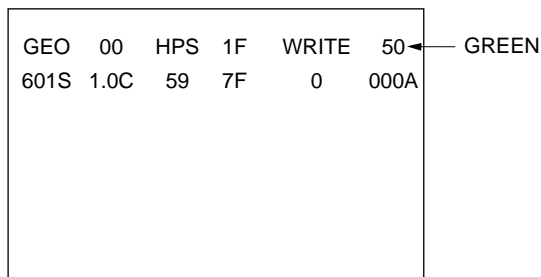
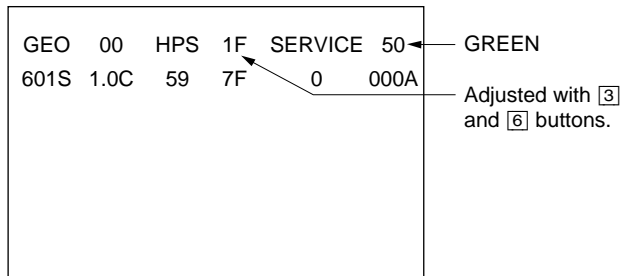
RM-951

4-2. ADJUSTMENT METHOD

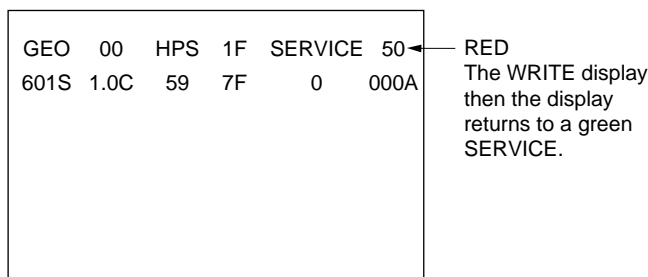
Item Number 00 of device GEO

This explanation uses H-Position as an example.

1. Select "GEO 00 HPS" with the **[1]** and **[4]** buttons.
2. Raise/lower the data with the **[3]** and **[6]** buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the **[MUTING]** button. (The display changes to WRITE.)
5. Execute the writing with the **[0]** button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)



Written with **[MUTING]**



Write executed with **[0]**

Use the same method for all Items. Use **[1]** and **[4]** to select the adjustment item, use **[3]** and **[6]** to adjust, write with **[MUTING]**, then execute the write with **[0]**.

- Note :**
1. In **[WRITE]**, the data for all items are written into memory together.
 2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Slava Address
	No	Name					
GEO	0	HPS	13	3F	H Position	50/60/MID50/MID60	CXA2130S(88H)
	1	HSZ	26	3F	H Size	50/60/MID50/MID60	
	2	PAP	22	3F	Pin Amp	50/60Hz	
	3	TLT	6	0F	Trapezium	50/60/MID50/MID60	
	4	VPS	25	3F	V Position	50/60/MID50/MID60	
	5	VSZ	16	3F	V Size	50/60/MID50/MID60	
	6	SCO	8	0F	S Correction	50/60Hz	
	7	VLN	7	0F	V Linearity	50/60Hz	
	8	BOW	8	0F	AFC Bow	50/60Hz	
	9	AGL	8	0F	AFC Angle	50/60Hz	
	0A	UPN	25	3F	Upper Pin	50/60Hz	
	0B	LPN	25	3F	Lower Pin	50/60Hz	
	0C	HBL	0	1	H Blanking on/off		
	0D	LBL	7	0F	Left H Blanking	50/60Hz	
	0E	RBL	7	0F	Right H Blanking	50/60Hz	
WHB	0	RDR	25	3F	R Drive	DYNAMIC/others	CXA2130S(88H)
	1	GDR	25	3F	G Drive	DYNAMIC/others	
	2	BDR	25	3F	B Drive	DYNAMIC/others	
	3	RCT	7	0F	R Cutoff	SECAM/others	
	4	GCT	7	0F	G Cutoff	SECAM/others	
	5	BCT	7	0F	B Cutoff	SECAM/others	
	6	BMN	18	1F	Brightness Minimum Data		
SAJ	7	SBR	2E	3F	Sub Brightness Control		CXA2130S(88H)
	0	PMX	2B	3F	Picture Maximum Data		
	1	SHU	0	0F	Sub Hue Control	TV/Video	
	2	SSH	4	0F	Sub Sharpness Control	TV/Video	
VP	3	SCL	20	3F	Sub Color Control	NTSC/others	CXA2130S(88H)
	0	EHT	5	0F	EHT Comp	50/60Hz	
	1	GMA	2	03	Gamma Correction (also separated for STANDARD)	NTSC/others	
	2	YDL	0D	0F	Y Delay	PAL/SECAM/NTSC/DVD	
	3	SST	2	03	SECAM ID Start Position		
	4	SSP	1	03	SECAM ID Stop Position		
	5	SLV	1	03	SECAM ID Level		
	6	SBF	22	3F	SECAM BELL fO		
	7	DYC	1	1	Dynamic Color on/off		
	8	ABL	0	1	ABL Mode Switching (except STANDARD)	except STANDARD	
	9	VTH	1	1	ABL Detection Vth Switching		
	0A	SF0	1	1	FO Switching for Sharpness	NTSC/others	
	0B	DCX	1	1	DC Trans. Ratio Switching		
	0C	SHT	1	1	Pre-/Overshoot ratio Switch	NTSC/others	

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Slava Address
	No	Name					
VP	0D	HDW	0	1	H Drive Pulse Width Switch	TV/Video/Text 50/60Hz Video only not memorized not memorized not memorized not memorized	CXA2130S(88H)
	0E	AFC	0	03	AFC Gain Control		
	0F	HOS	7	0F	H Oscillation		
	10	HSS	0	1	Slice Level of H Sync Sep.		
	11	VSS	0	1	Slice Level of V Sync Sep.		
	12	HMS	1	1	Macro Vision C/m off/on		
	13	YUV	0	1	YUV Switch Control		
	14	CDV	1	3	CD mode for Video		
	15	RON	1	1	R ON		
	16	GON	1	1	G ON		
	17	BON	1	1	B ON		
	18	PON	1	1	P ON		
	19	BLK	0	1	BLK Off		
	1A	VMC	1	1	VM Off		
AP	0	BCS	1	3	Bass Center Shift		TDA7315(80H)
	1	TCS	1	3	Treble Center Shift		
MSP	0	WST	15	FF	W/G Stereo Threshold		MSP3415D(84H)
	1	WBT	EA	FF	W/G Bilingual Threshold		
	2	WLL	5	FF	W/G Monaural Threshold		
	3	WAC	1	0F	W/G Agreement Count		
	4	WDL	30	FF	W/G Search Delay		
	5	NDL	20	FF	NICAM Search Delay		
	6	SDL	10	FF	Stereo status Read Delay		
	7	AGC	1	1	AGC Switch Auto/Constant		
	8	REL	28	3F	AGC Gain at Constant Mode		
	9	CRM	0	1	Carrier muting on/off		
	0A	ACO	1	1	Audio Clock out on/off		
	0B	FP	1B	7F	FM Prescale for non-M system		
	0C	FPM	32	7F	FM Prescale for M system		
	0D	FH	2D	7F	FM Prescale for HDEV		
	0E	FHM	65	7F	FM Prescale for HDEV and M		
	0F	WGP	2A	7F	W/G Prescale		
	10	NIP	6D	7F	NICAM Prescale		
	11	ERR	50	FF	Auto FM switch Threshold		
	12	VOL	FF	FF	Loud Speaker gain 0700h to 07FFh		

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Slava Address
	No	Name					
LTI	0	LDH	1	1	Histogram Segment Selection		TDA9178 (40H)
	1	CFS	1	1	Contour Filter Selection		
	2	WLB	0	1	Letterbox Window Switch		
	3	VDC	1	1	Video Dependent Coring		
	4	DEM	0	1	Demonstration Mode		
	5	CDP	0	07	Luminance Delay		
	6	OSP	1	1	Override Smart Peaking		
	7	WPO	0	1	White Point Stretch Off		
	8	DSK	0	1	Skin Tone Switch		
	9	ASK	0	1	Skin Tone Angle Selection		
	0A	WSK	0	1	Skin Tone Width Selection		
	0B	SSK	0	1	Skin Tone Size Selection		
	0C	DGR	1	1	Green Enhancement Switch		
	0D	DGT	7	7	Threshold of Green Enhancement Switch		
	0E	GGR	0	1	Green Enhancement Gain		
	0F	WGR	0	1	Green Enhancement Width		
	10	SGR	0	1	Green Enhancement Size		
	11	DBL	0	1	Blue Stretch Switch		
	12	GBL	0	1	Blue Stretch Gain Selection		
	13	SBL	0	1	Blue Stretch Size Selection		
	14	CDS	1	1	Color Dependent Sharpness		
	15	CST	7	7	Threshold of Color Dependent Sharpness		
	16	CTI	0	1	Color Transient Improvement		
	17	BON	0	1	Black offset Compensation		
	18	BTD	0	3F	Adaptive Black Stretch		
	19	NLD	15	3F	Non-Linearity Amplifier		
	1A	NLW	4	7	Step Width of Non-Linearity Amplifier		
	1B	VGD	20	3F	Variable Gamma		
	1C	VGW	0	7	Step Width of Variable Gamma		
	1D	PKD	1A	3F	Peaking Amplitude		
	1E	PKW	8	0F	Step Width of Peaking Amplitude		
	1F	SPD	1F	3F	Steepness Correction		
	20	CRD	13	3F	Coring Level	TV/Video	
	21	CRW	9	0F	Step Width of Coring Level		
	22	LWD	1F	3F	Line Width Correction		
	23	SNM	1	7	S/N Mode under unreliable S/N Condition		
	24	SNC	3	0F	S/N Ratio Average Counter		
	25	FMC	2	0F	Feature Mode Matching Counter		

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Slava Address
	No	Name					
MID	0	HAT	1C	FF	H Phase for A-ch in Twin mode		CXP86332 (6EH)
	1	HAX	21	FF	H Phase for A-ch in Index mode		
	2	VPA	0C	FF	V Phase for A-ch (common)		
	3	DLA	3	O7	Chroma Delay for A-ch		
	4	VJA	0	O3	V-Jitter Reduction for A-ch		
	5	CYA	10	FF	Y-Clamp Level for A-ch		
	6	CUA	80	FF	U-Clamp Level for A-ch		
	7	CVA	80	FF	V-Clamp Level for A-ch		
	8	DPA	0	7F	Clamp Delay Position for A-ch		
	9	HBT	22	FF	H Phase for B-ch in Twin mode		
	0A	HBI	20	FF	H Phase for B-ch in PinP mode		
	0B	HBX	21	FF	H Phase for B-ch in Index mode		
	0C	VPB	0C	FF	V Phase for B-ch except in Index		
	0D	VBX	9	FF	V Phase for B-ch in Index mode		
	0E	DLB	3	O7	Chroma Delay for B-ch		
	0F	VJB	0	O3	V-Jitter Reduction for B-ch		
	10	CYB	10	FF	Y-Clamp Level for B-ch		
	11	CUB	80	FF	U-Clamp Level for B-ch		
	12	CVB	80	FF	V-Clamp Level for B-ch		
	13	DPB	0	7F	Clamp Delay Position for B-ch		
	14	VJC	3	3	V-Jitter Reduction for C-ch		
	15	DLC	4	7	Chroma Delay for C-ch		
	16	YSD	1	7	YS Delay		
	17	ADA	0	1	AD Switch for A-ch		
	18	ADB	0	1	AD Switch for B-ch		
	19	DCA	0	3	Digital Input Color Signal Phase for A-ch		
	1A	DCB	0	3	Digital Input Color Signal Phase for B-ch		
	1B	ACA	0	1	ADC on/off for A-ch		
	1C	ACB	0	1	ADC on/off for B-ch		
	1D	WIA	0	3	Write Interlace Correction for A-ch		
	1E	RIA	0	3	Read Interlace Correction for A-ch		
	1F	WIB	0	3	Write Interlace Correction for B-ch		
	20	RIB	0	3	Read Interlace Correction for B-ch		
	21	OEA	0	1	Odd/Even Selection for A-ch		
	22	EIA	0	3	Reverse Interlace Correction for A-ch		
	23	OEB	0	1	Odd/Even Selection for B-ch		
	24	EIB	0	3	Reverse Interlace Correction for B-ch		
	25	OEC	0	1	Odd/Even Selection for C-ch		
	26	OES	0	1	Option 1 for Euro model		
	27	OID	1	1	Option 2 for Field ID		
	28	OVF	0	1	Option 3 for V LPF		

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Slava Address
	No	Name					
MID	29	OSH	1A	3F	OSD H Position		CXP86332 (6EH)
	2A	OSV	2C	3F	OSD V Position		
	2B	PHP	3	0F	PinP H Position		
	2C	PVP	4	0F	PinP V Position		
SVP	0	SBF	22	3F	SECAM BELL f0	TV/Video NTSC/others	CXA2130S(8AH)
	1	HOS	7	0F	H Oscillation		
	2	SHU	6	0F	Sub Hue Control		
	3	SCL	1F	3F	Sub Color Control		
DSP	0	TS1	A5	FF	TruSurround Effect 1	Virtual/TruSurr. Virtual/TruSurr. TruSurr./Simulate TruSurr./Simulate Off/Vir./Tru./Sim. Off/Vir./Tru./Sim. Off/Vir./Tru./Sim.	TC9447F(32H)
	1	TS2	5A	FF	TruSurround Effect 2		
	2	SR1	FF	FF	SRS Effect 1		
	3	SR2	FF	FF	SRS Effect 2		
	4	BH1	40	FF	BBE Effect 1 for BBE High		
	5	BH2	48	FF	BBE Effect 2 for BBE High		
	6	BL1	33	FF	BBE Effect 1 for BBE Low		
TXT	0	TXH	1	3	Teletext Horizontal Position		SAA5261(58H)
	1	TXV	1	7	Teletext Vertical Position		
OPM	0	OSH	0C	3F	OSD H Position	Option-Misc.	CXP750097(60H)
	1	COM	2	03	Comb Selection		
	2	APC	0	1	APC Switch		
	3	TSY	0	03	TV Sys at Auto TV Sys		
	4	MUT	0	1	No Signal Mute		
	5	AFM	1	1	Auto FM switch		
	6	RFB	0	03	C-BPF Control		
	7	TVO	3	7	Tilt to V-Angle offset		
OPB	8	DBL	0	1	Disable Blueback Function	Option-Bits.	CXP750097(60H)
	0	OP1	FF	FF	Optional Bits 1 (see below)		
	1	OP2	E7	FF	Optional Bits 2 (see below)		
	2	OP3	32	FF	Optional Bits 3 (see below)		

NOTE

- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

ITEM INFORMATION.**No. OPB0 OP1**

Item	XTAL 4.43	XTAL 3.58	SECAM	2nd. Lang	B/G	I	D/K	M
Initial Data	1	1	1	1	1	1	1	1

No. OPB1 OP2

Item	DEST	TOP	NICAM	HDEV	Thai Bil.	---	DVD Input	AV Input	
Initial Data	Other	0	1	1	0	0	1	1	1
	OCE	1	1	1	0	0	1	1	1

AV Input 00 = no AV Input 01 = 1 AV Input
 10 = 2 AV Input 11 = 3 AV Input

DVD Input Effective only when "AV Input" is set to 3 AV input

No. OPB2 OP3

Item	---	---	Auto PIC	A-Tvsys	US ST	2199	11 Key	Color SW
Initial Data	0	0	1	1	0	0	1	0

Auto PIC Auto Picture Improvement 0 = inactive, 1 = active

A-TVsys Auto TV System in Auto Program 0 = disabled, 1 = enabled

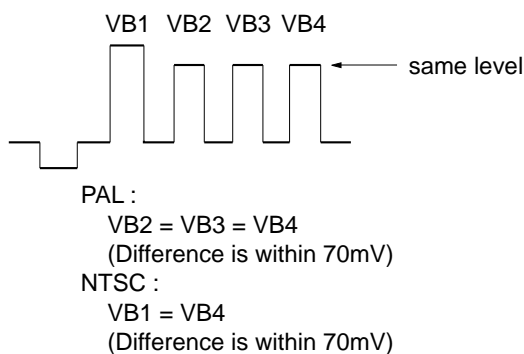
US ST USA Stereo 0 = disabled, 1 = enabled

11 Key Front Key Selection 0 = 7 key model, 1 = 11 key model

4-3. PICTURE QUALITY ADJUSTMENTS

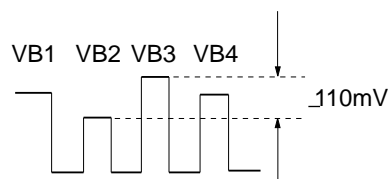
SUB COLOR ADJUSTMENT (SCL)

1. Set to service mode.
2. Input RF PAL colorbar signal.
Set A/V control to PERSONAL.
3. Set to VP7 (Service mode) "DYC" = 0
4. Set the following condition.
Picture to 100%, Color to 0% and Bright to 0%.
5. Connect an oscilloscope to the pin ③ (BLUE) of CN705, C board.
6. Using the **[1]** and **[4]** buttons select SAJ 3 (Service mode) "SCL".
7. Using the **[3]** and **[6]** buttons on the Remote Commander to adjust to VB2 = VB3 = VB4 with **[3]** and **[6]**.
8. Write into the memory by pressing "MUTING" then "0".
9. Input NTSC colorbar signal to VIDEO1 and select VIDEO1 input.
10. Adjust as step 4. and 8. by receiving NTSC colorbar.
11. Reset to VP 7 (Service mode) "DYC" = 1.



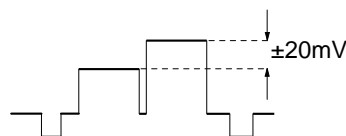
SUB HUE ADJUSTMENT (SHU)

12. Set to service mode.
13. Input NTSC colorbar signal to VIDEO1 and select VIDEO1 input.
14. Set to VP 7 (Service mode) "DYC" = 0
15. Connect an oscilloscope to the pin ③ (BLUE) of CN705, C board.
16. Using the **[1]** and **[4]** buttons select SAJ 1 (Service mode) "SHU (VIDEO)".
17. Using the **[3]** and **[6]** buttons on the Remote Commander to adjust to VB2 = VB3 = VB4 with **[3]** and **[6]**.
18. Write into the memory by pressing **[MUTING]** then **[0]**.
19. Reset to VP 7 (Service mode) "DYC" = 1.

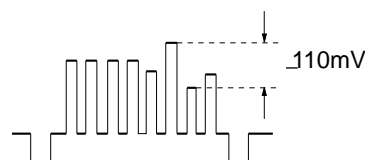


The highest level of VB1,VB2,VB4 will be aligned at the same line.
The ideal different level between VB2 and VB3 is within $\pm 110\text{mV}$.

20. Select "TWIN PICTURE" mode. (MID)
21. Receive different RF PAL white signals in MAIN and SUB picture.
22. Adjust RV5301 on B board so that the level at pin ② (BLUE) of CN705 on C board becomes within spec.



23. Receive RF NTSC colorbar signal in MAIN picture and VIDEO1 NTSC colorbar signal in SUB picture.
24. Adjust SVP2 (Service mode) "SHU (VIDEO)" so that the level at pin ③ (BLUE) of CN705 on C board becomes within spec.
25. Write into the memory by pressing **[MUTING]** then "0".



26. Write SJA 3 (Service mode) "SCL (PAL)" +4 steps to SJA 3 (Service mode) "SCL (PAL)".
Write SJA 3 (Service mode) "SCL (NTSC)" +3 steps to SJA 3 (Service mode) "SCL (NTSC)".
Write SJA 1 (Service mode) "SHU (VIDEO)" +3 steps to SJA 1 (Service mode) "SHU (VIDEO)".
Write SJA 1 (Service mode) "SHU (VIDEO)" -5 steps to SJA 1 (Service mode) "SHU (TV)".
Write SVP 2 (Service mode) "SHU (VIDEO)" +3 steps to SVP 2 (Service mode) "SHU (VIDEO)".
Write SVP2 (Service mode) "SHU (VIDEO)" -2 steps to SVP 2 (Service mode) "SHU (TV)".
27. Reset to VP 7 (Service mode) "DYC" = 1

Y LEVEL (SUB PICTURE) ADJUSTMENT

1. Input a PAL colorbar signal.
2. Set to TWIN PICTURE mode.
3. Connect an oscilloscope to pin ② (R-out) of CN705 on the C board.
4. Adjust VR5301 on B board so that white level of main picture and sub picture becomes same level.

HUE LEVEL (SUB PICTURE) ADJUSTMENT

1. Input a NTSC colorbar VIDEO signal.
2. Set to TWIN PICTURE mode.
3. Connect an oscilloscope to pin ② (R-out) of CN705 on the C board.
4. Select SVP (02) SHU with [1] and [4] of the commander so that waveform of main picture and sub picture become same level.
5. Press [MUTING] → [0] on the commander to write the data with SVP (02) "SHU" Video mode and TV mode.

H-TRAPIZIUM ADJUSTMENT

1. Input a cross hatch/dot signal.
2. Adjust RV1801 on C board to make H-Trapezoid distortion best.

FREQUENCY (FREE RUN) ADJUSTMENT

1. Select Video 1 (no signal).
2. Connect a frequency counter across pin ①⑨ (FH) IC301 of A Board.
3. Select VP (OF) HOS with [1] and [4] of the commander then adjust to 15.690kHz ± 25Hz using [3] and [6].

4-4. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

When replacing IC003 (MEMORY), be sure to change IC001 (μ-COM) to the following new IC at the same time.

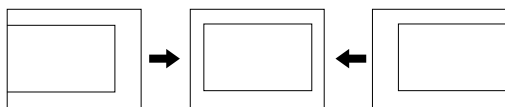
MODEL	IC001 (μ-CON)
KV-EF34M31(OCE) KV-EF34M61(GE) KV-EF34M90(HK) KV-EF34M90(JE)	CXP750097-001S
KV-EF34M80(ME) KV-EF34M91(ME)	CXP750097-002S

1. Enter to Service Mode.
2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.
3. Call each item number and check if the respective screen shows the normal picture.
In cases where items are not well adjusted, rectify the items with fine adjustment.
Write the data per each item number ([MUTING] + [0]).
4. Select item numbers "OPB0" (OP1), "OPB1" (OP2) and "OPB2" (OP3) and respectively set the bit per model with command buttons [3] and [6].
5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
(This will also cancel Service Mode.)

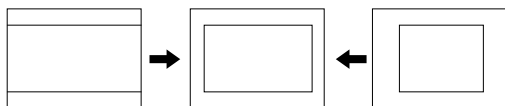
4-5. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 11

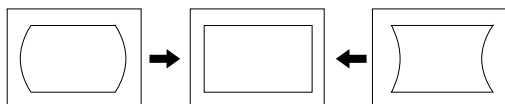
GEO 0 HPS (H POSITION)



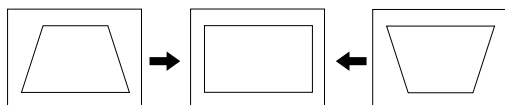
GEO 1 HSZ (H SIZE)



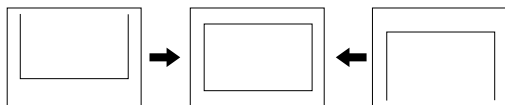
GEO 2 PAP (PIN AMP)



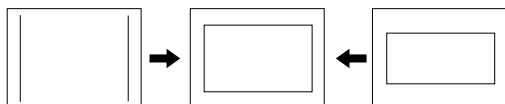
GEO 3 TLT (TRAPEZIUM)



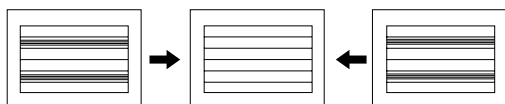
GEO 4 VPS (V POSITION)



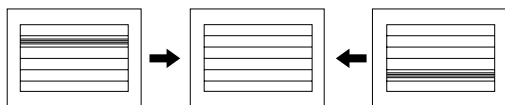
GEO 5 VSZ (V SIZE)



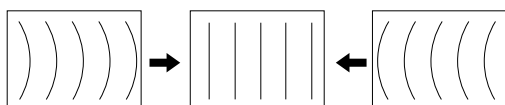
GEO 6 SCO (VERTICAL S-Correction)



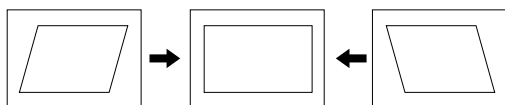
GEO 7 VLN (V LINEARITY)



GEO 8 BOW (AFC.BOW)

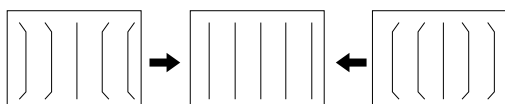


GEO 9 AGL (AFC.ANGLE)



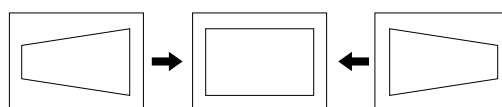
GEO 10 UPN (UPPER PIN)

GEO 11 LPN (LOWER PIN)



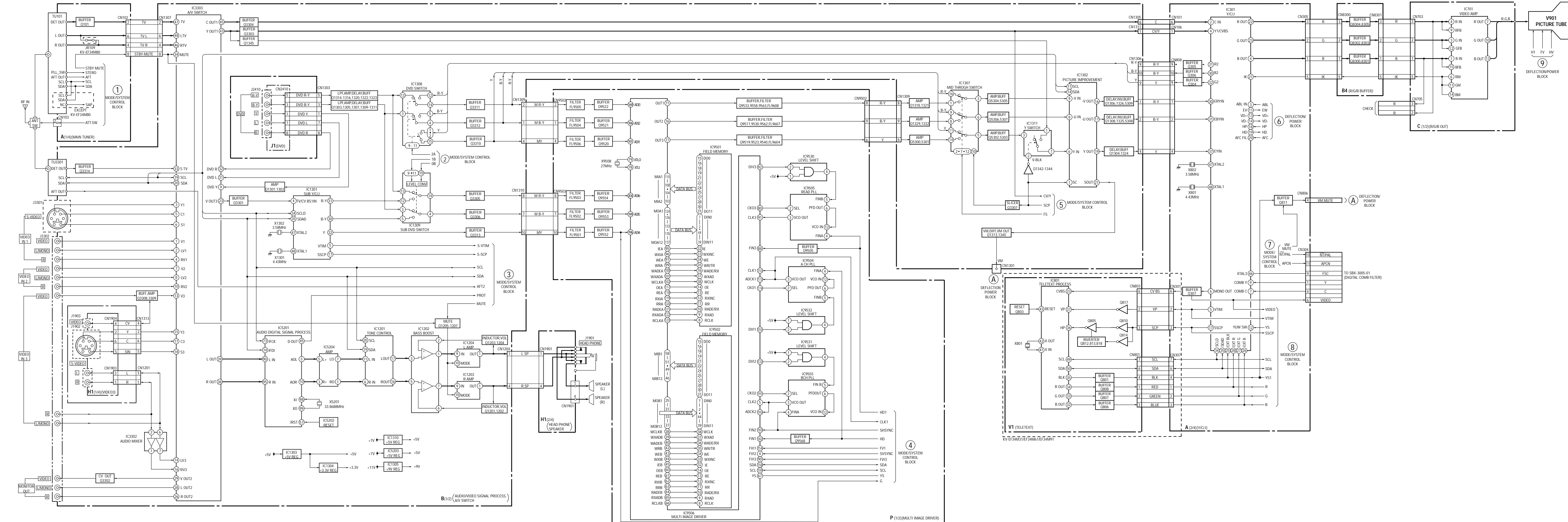
PICTURE DISTORTION ADJUSTMENT (2)

H-TRAPEZOID (Rotate RV1801, C board)



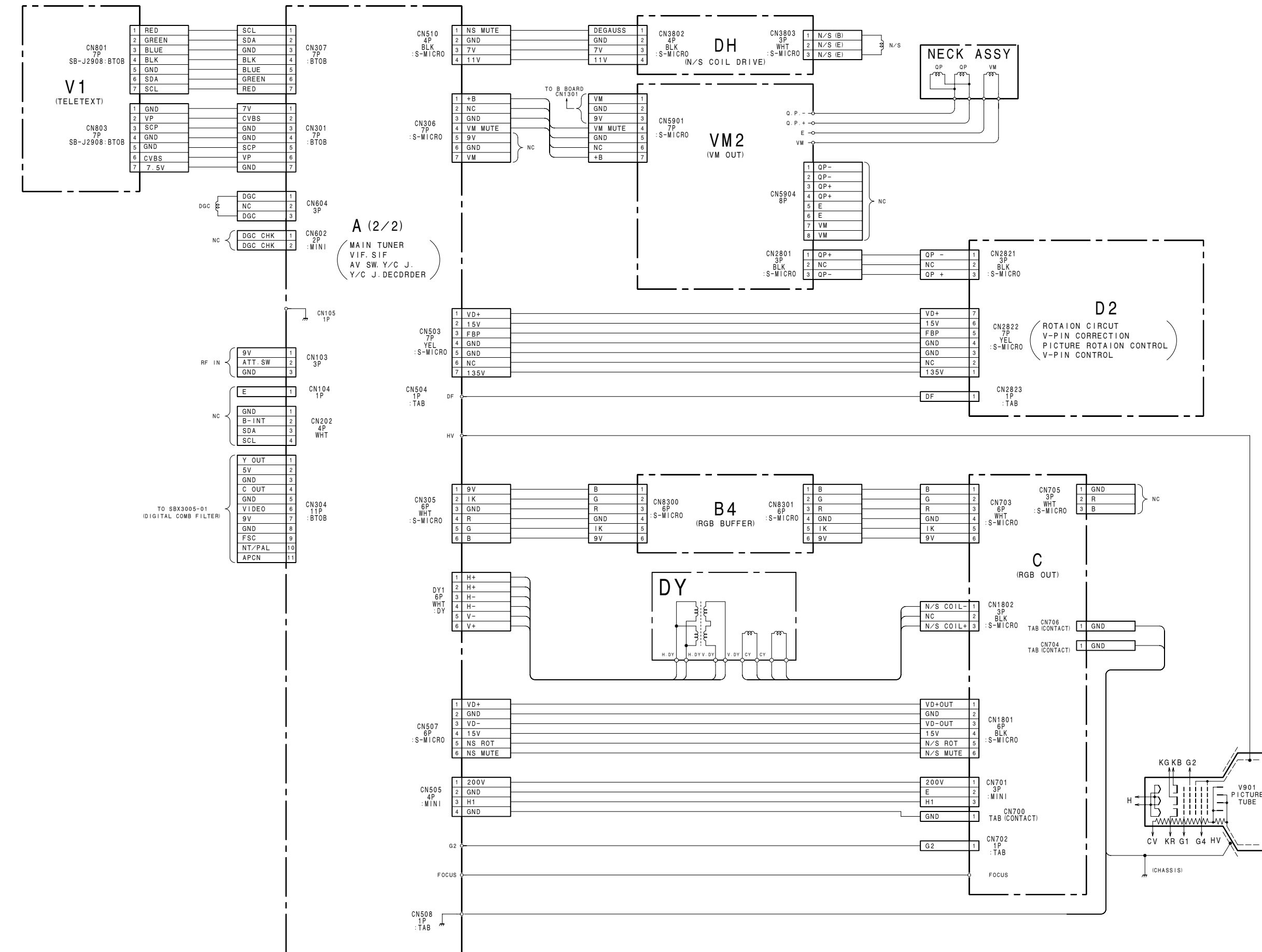
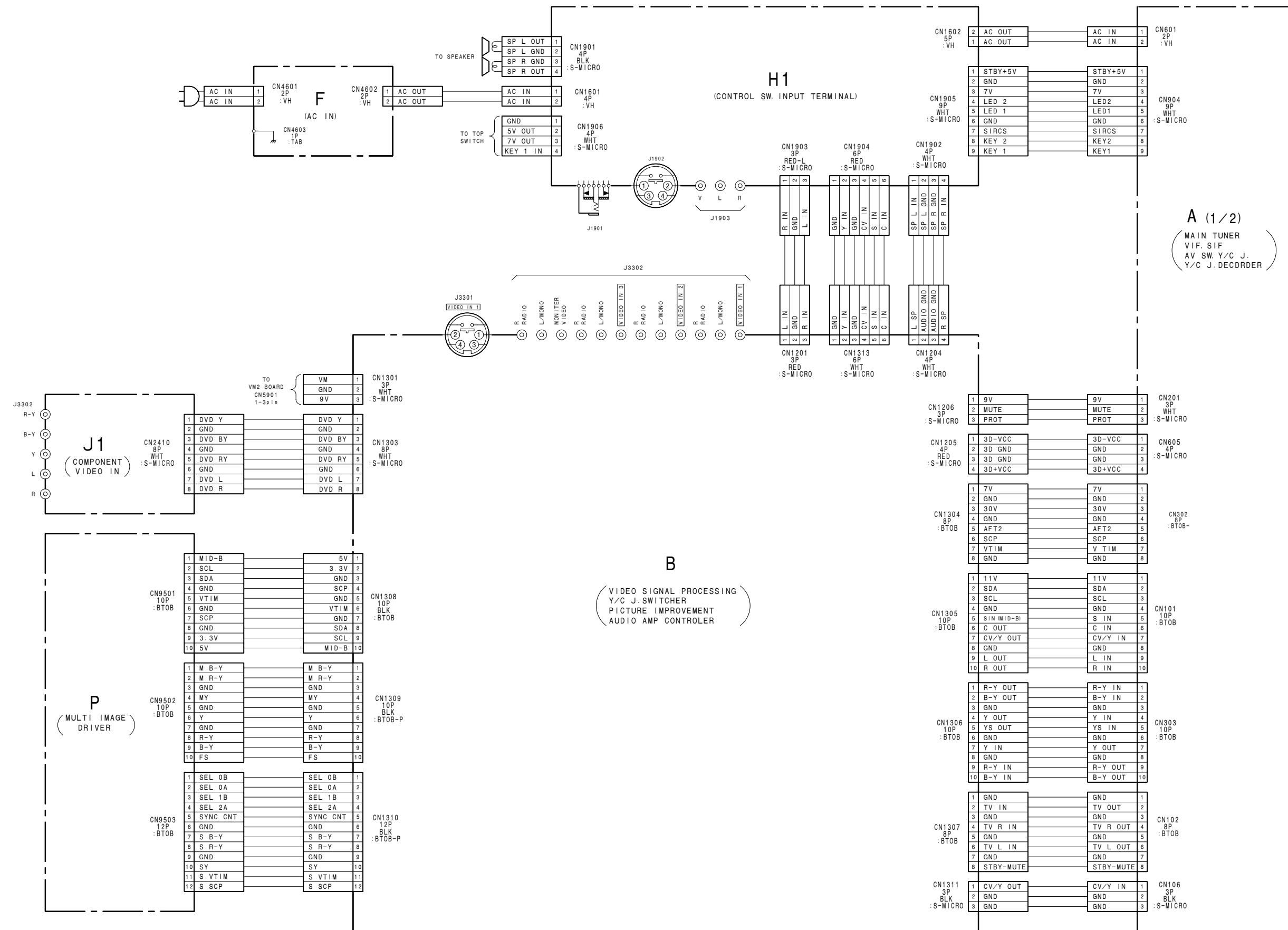
5-1. BLOCK DIAGRAM

SECTION 5 DIAGRAMS

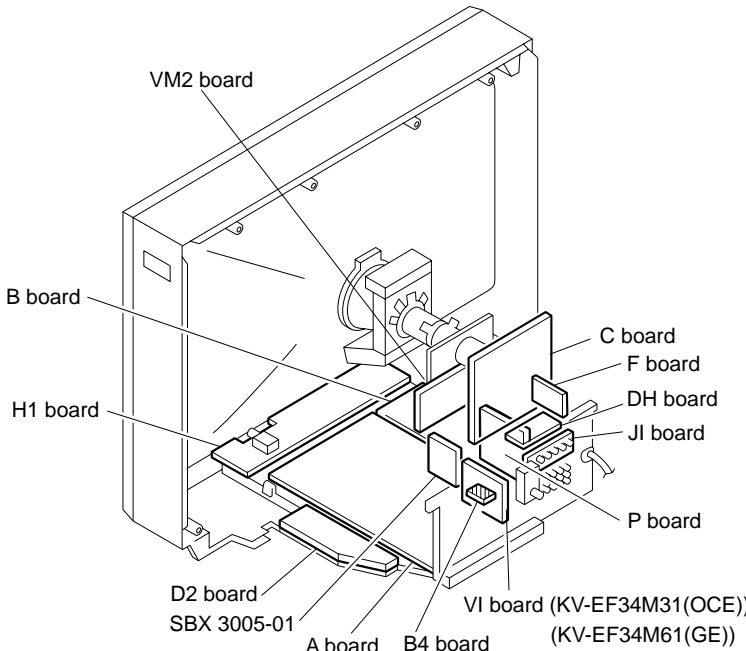




5-2. FRAME SCHEMATIC DIAGRAM



5-3. CIRCUIT BOARDS LOCATION



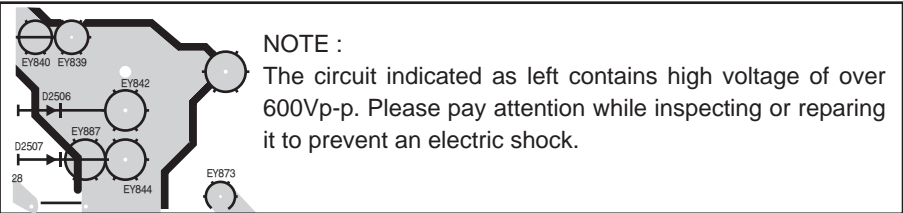
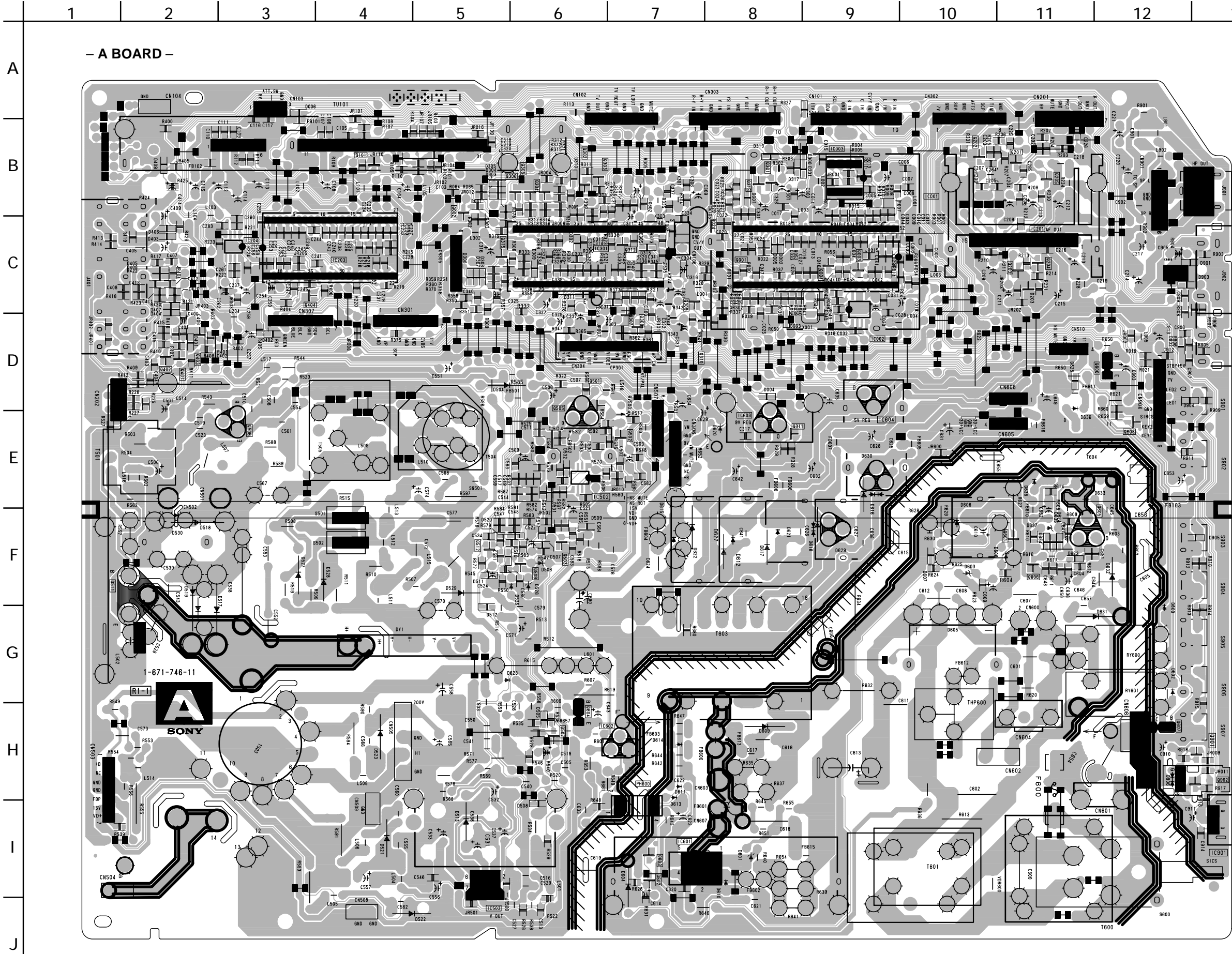
5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note:**
- All capacitors are in μF unless otherwise noted.
 - All electrolytic capacitors are rated at 50V unless otherwise noted.
 - All resistors are in ohms.
 $k\Omega = 100\Omega$, $M\Omega = 1000k\Omega$
 - Indication of resistance, which does not have one for rating electrical power, is as follows.
Pitch: 5 mm
Rating electrical power 1/4W (CHIP: 1/10W)
 - : nonflammable resistor.
 - : internal component.
 - : panel designation, or adjustment for repair.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
 - Readings are taken with a color-bar signal input.
no mark : PAL
() : SECAM
[] : NTSC
 - Readings are taken with a 10 M Ω digital multimeter.
 - Voltage are dc with respect to ground unless otherwise noted.
 - Voltage variations may be noted due to normal production tolerances.
 - All voltages are in V.
 - * : Can not be measured.
 - Circled numbers are waveform reference.
 - : B + bus.
 - : B - bus.
 - : signal path.

Reference information		
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFRAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: *	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note:The component identified by shading and mark are critical for safety. Replace only with part number specified.

A MAIN TUNER, VIF, SIF, AW SW,
Y/C J, Y/C J. DECODER



A BOARD

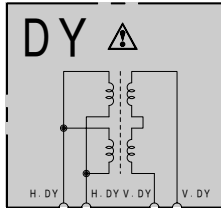
IC		D306	C-5	③
IC001	B-10	D307	C-5	③
IC002	C-9	D308	C-5	③
IC003	B-9	D309	C-6	③
IC301	C-6	D311	C-6	③
IC502	E-6	D312	C-7	③
IC503	I-5	D313	B-8	③
IC601	I-7	D317	B-8	③
IC602	H-7	D504	D-5	-
IC603	E-8	D505	H-6	③
IC604	D-9	D506	F-6	-
TRANSISTOR		D507	F-6	③
		D508	I-6	-
		D509	F-6	③
		D510	F-6	③
		D511	F-5	③
		D512	F-5	③
		D513	I-5	-
		D517	F-2	-
		D520	F-5	③
		D521	I-4	-
		D522	J-4	-
		D523	H-4	-
		D525	F-5	-
		D526	F-6	-
		D527	F-3	-
		D528	F-4	-
		D529	F-5	-
		D530	F-2	-
		D531	E-6	③
		D532	E-6	③
		D600	F-12	-
		D602	G-12	-
		D603	F-10	-
		D604	I-7	-
		D605	G-10	③
		D606	E-10	-
		D607	F-10	③
		D608	F-10	-
		D609	H-8	-
		D610	I-8	-
		D611	H-7	-
		D612	F-8	-
		D613	H-7	-
		D614	H-7	-
		D620	E-8	-
		D621	F-8	-
		D622	F-7	-
		D623	F-11	③
		D624	F-11	③
		D625	D-11	③
		D628	G-5	-
		D630	E-9	③
		D631	G-11	-
		D632	F-12	-
		D633	E-11	-
		D634	F-11	③
		D635	F-11	③
		D636	D-11	-
		D637	F-11	-
		D638	E-11	-
DIODE		D001	B-8	③
		D002	C-8	③
		D003	D-8	③
		D004	D-8	③
		D005	C-8	③
		D006	A-3	③
		D300	B-8	③
		D301	B-8	③
		D303	B-5	③
		D304	B-5	③
		D305	B-5	③
		D306	C-5	③
		D307	C-5	③
		D308	C-5	③
		D309	C-6	③

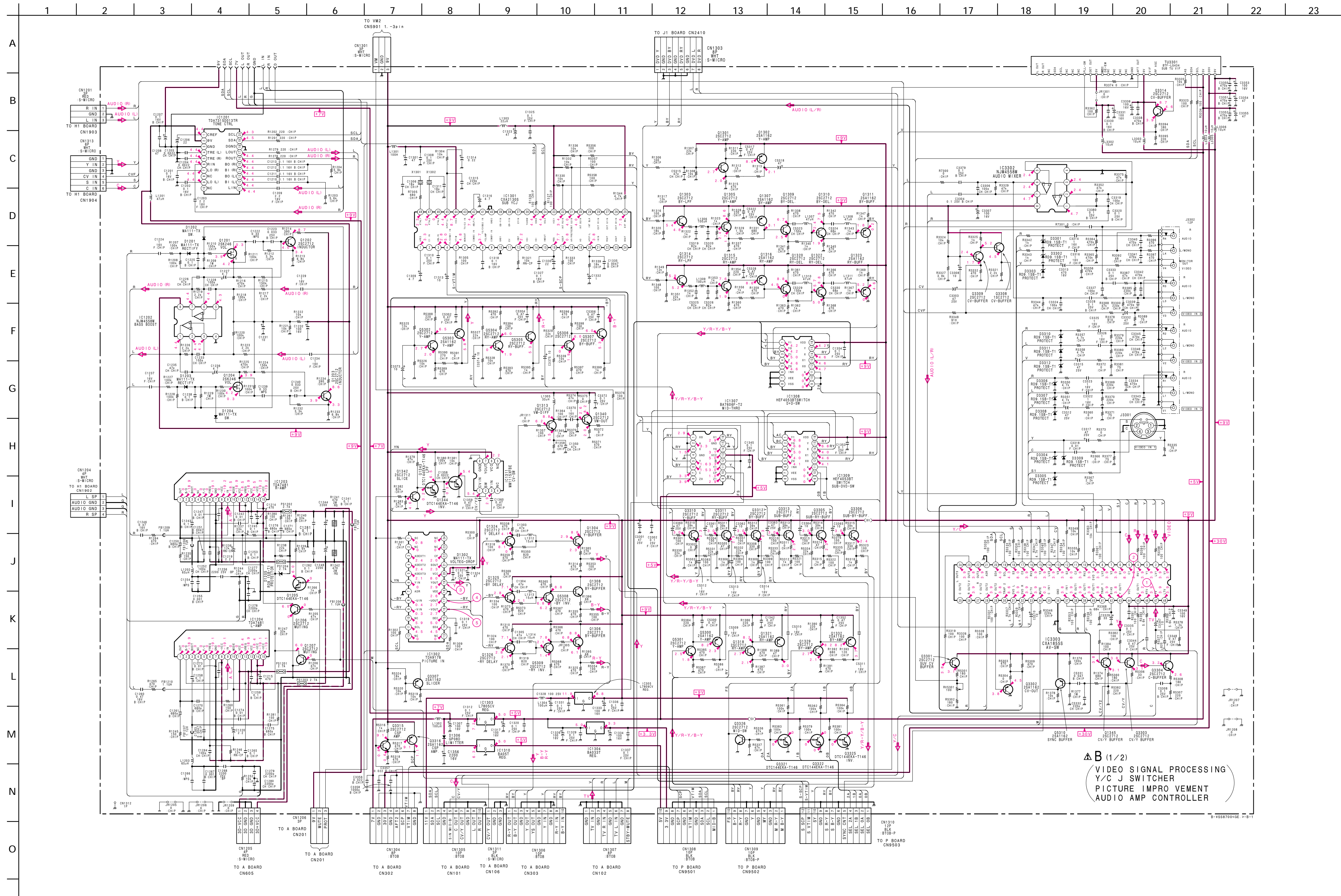
Terminal name of semiconductors in silk screen
printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor		Collector Base Emitter	
②	Transistor		Collector Base Emitter	
③	Diode		Cathode Anode	
④	Diode		Cathode Anode (NC)	
⑤	Diode		Cathode Anode (NC)	
⑥	Diode		Common Anode Cathode	
⑦	Diode		Common Anode Cathode	
⑧	Diode		Common Anode Anode	
⑨	Diode		Common Anode Anode	
⑩	Diode		Common Cathode Cathode	
⑪	Diode		Common Cathode Cathode	
⑫	Diode		Anode Anode Cathode	
⑬	Transistor (FET)		Drain Source Gate	
⑭	Transistor (FET)		Drain Source Gate	
⑮	Transistor (FET)		Source Drain Gate	
⑯	Transistor		Emitter Collector Base	
⑰	Transistor		C1 (B1) E2 E2 (B2) C1	
⑱	Transistor		C1 (B2) E2 E1 B1 C2	
⑲	Transistor		C1 (B2) E2 E1 B1 C2	
⑳	Transistor		C1 (B2) E2 E1 B1 C2	
㉑	Transistor		E2 B1 E1 C2 C1 (B2)	
㉒	Transistor		(B2) B1 E1 E2 C1 C2	
㉓	Transistor		(B2) E2 E1 B1 C2 C1	
-	Discrete semiconductor			

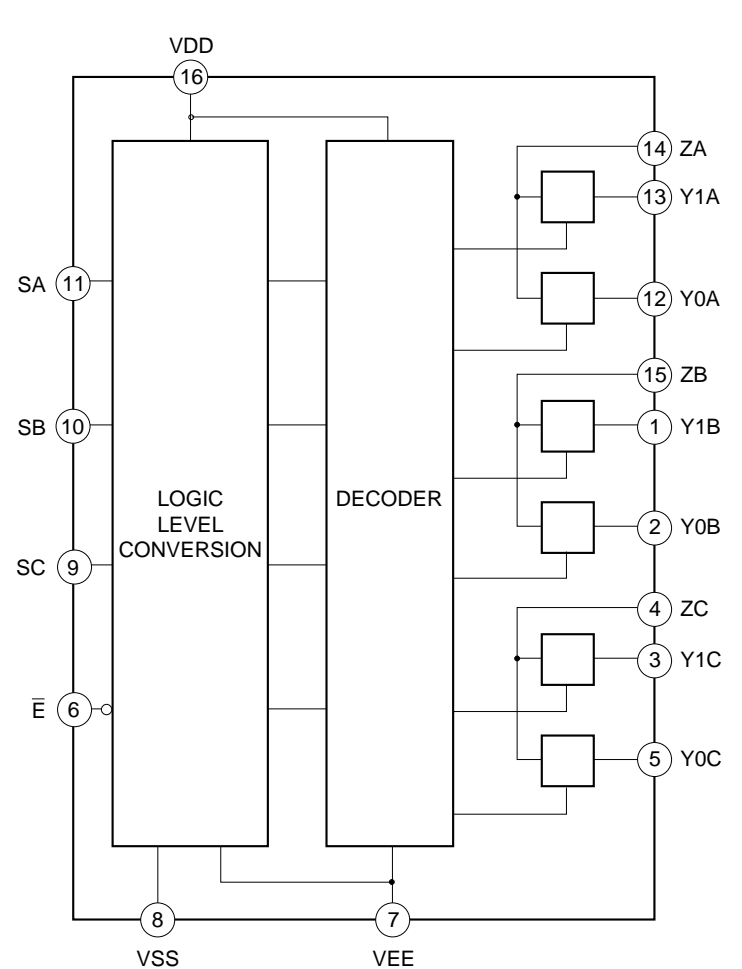
(Chip semiconductors that are not actually used are included.)

Ver.1.5

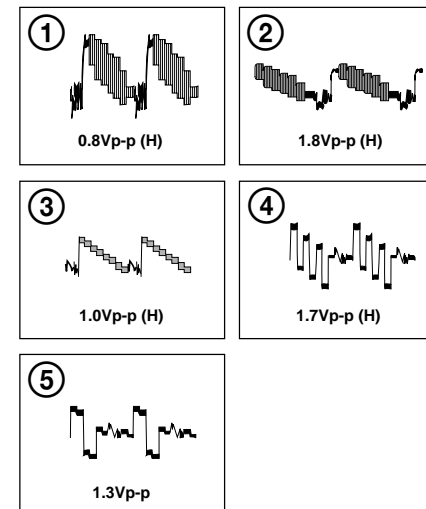




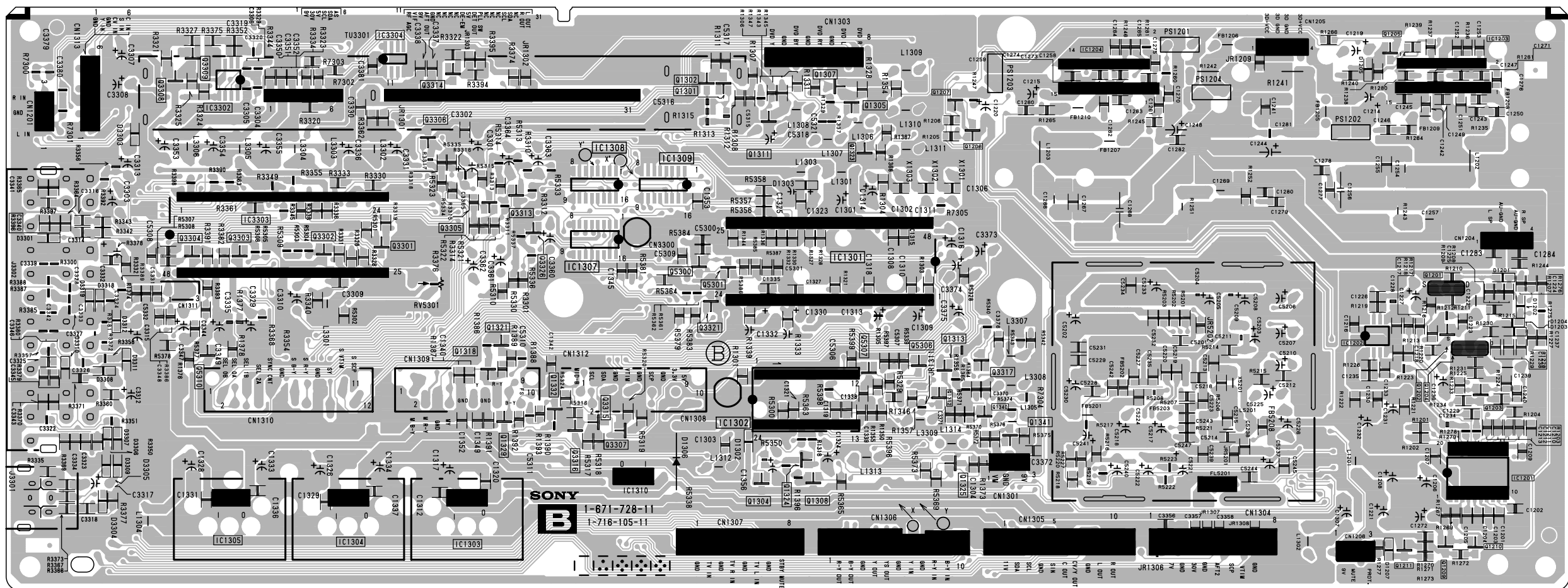
IC1308 HEF4053BT



B (1/2) BOARD WAVEFORMS



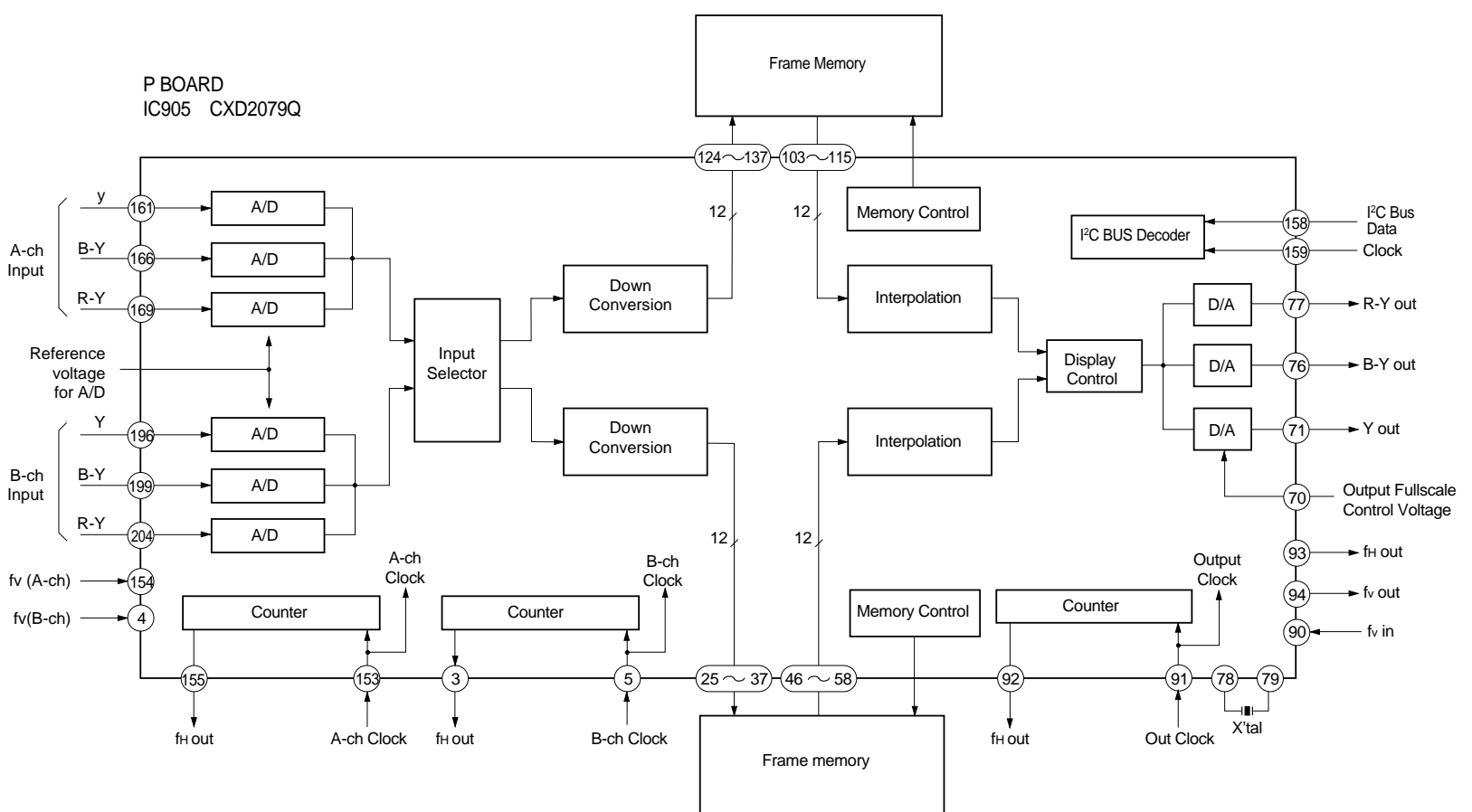
<Conductor Side>



← **B** (1/2) board

DIODE		
D1201	-	
D1202	-	
D1203	-	
D1204	-	
D1205	-	
D1302	-	
D1306	F-9	-
D3301	-	
D3302	D-13	③
D3303	-	
D3304	-	
D3305	-	
D3306	-	
D3307	-	
D3308	-	
D3309	-	
D3310	-	
D3311	-	
D3312	-	

DIODE		
D1201	D-27	③
D1202	D-28	③
D1203	E-27	③
D1204	E-27	③
D1205	B-26	③
D1302	F-21	③
D1306	F-20	-
D3301	D-15	③
D3302	-	
D3303	C-16	③
D3304	F-16	③
D3305	F-16	③
D3306	F-16	③
D3307	F-16	③
D3308	E-16	③
D3309	F-16	③
D3310	E-15	③
D3311	E-16	③
D3312	E-16	③



P BOARD
IC905 CXD2079Q

A

B

C

D

E

F

G

H

I

J

K

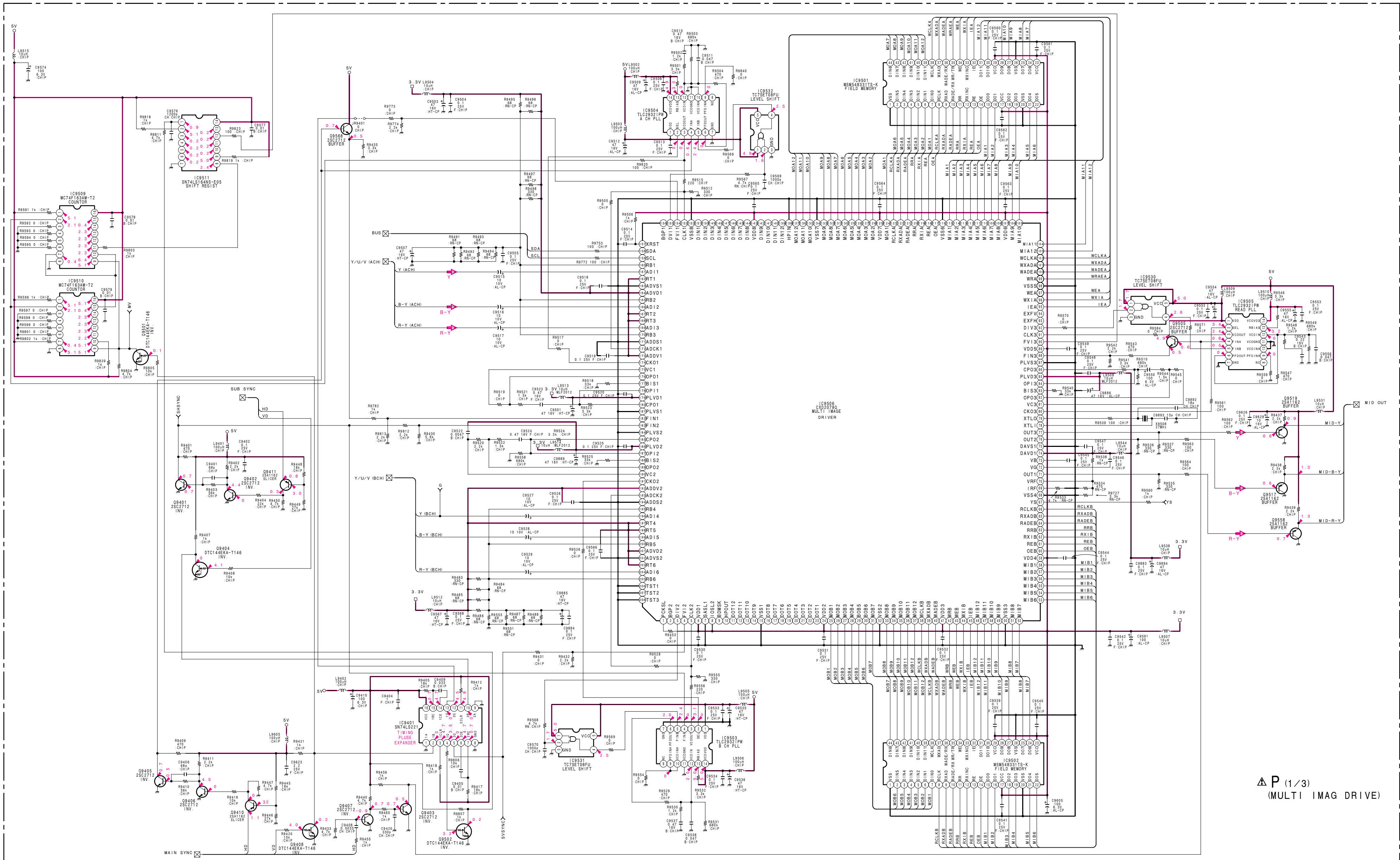
L

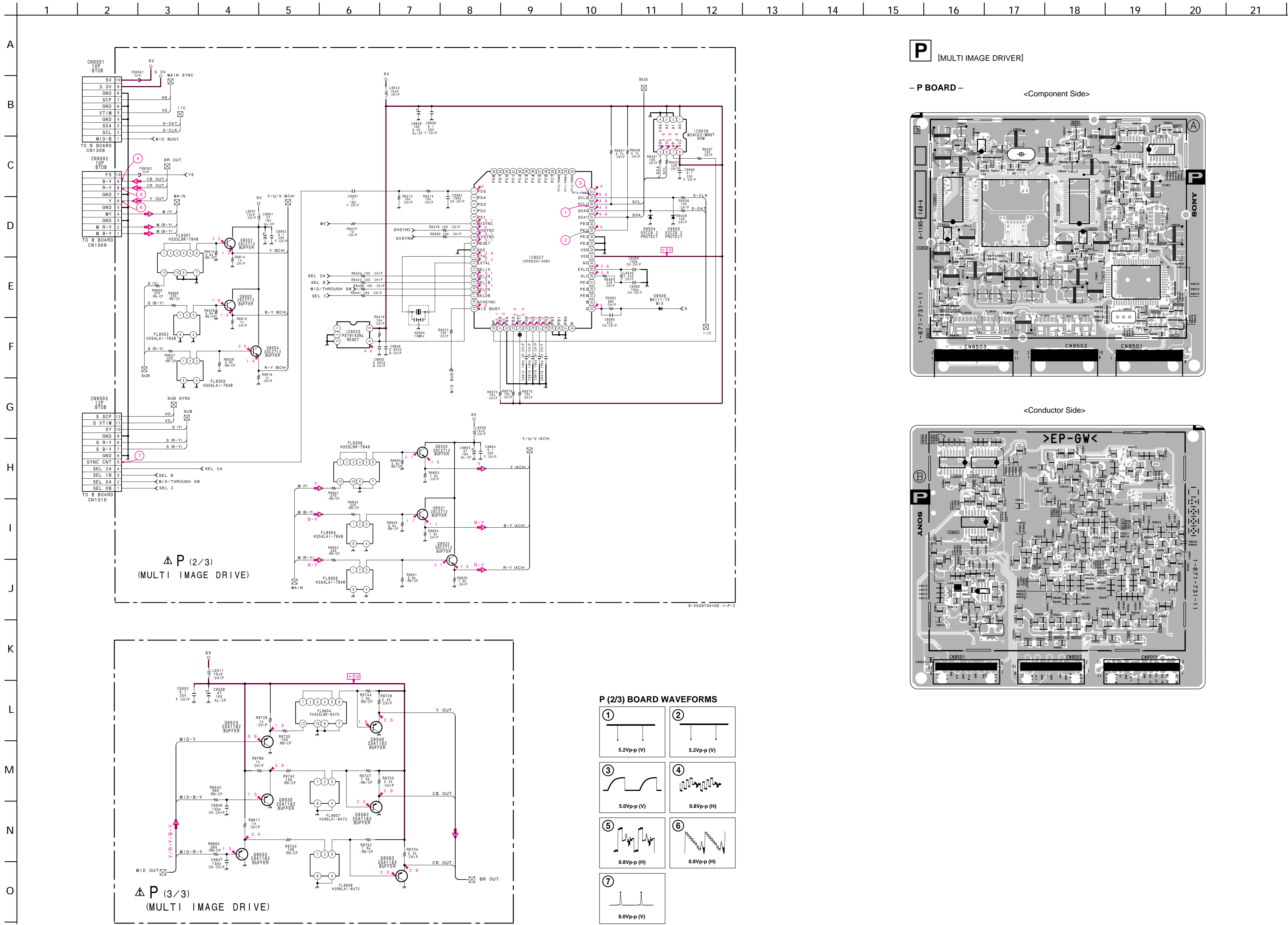
M

N

O

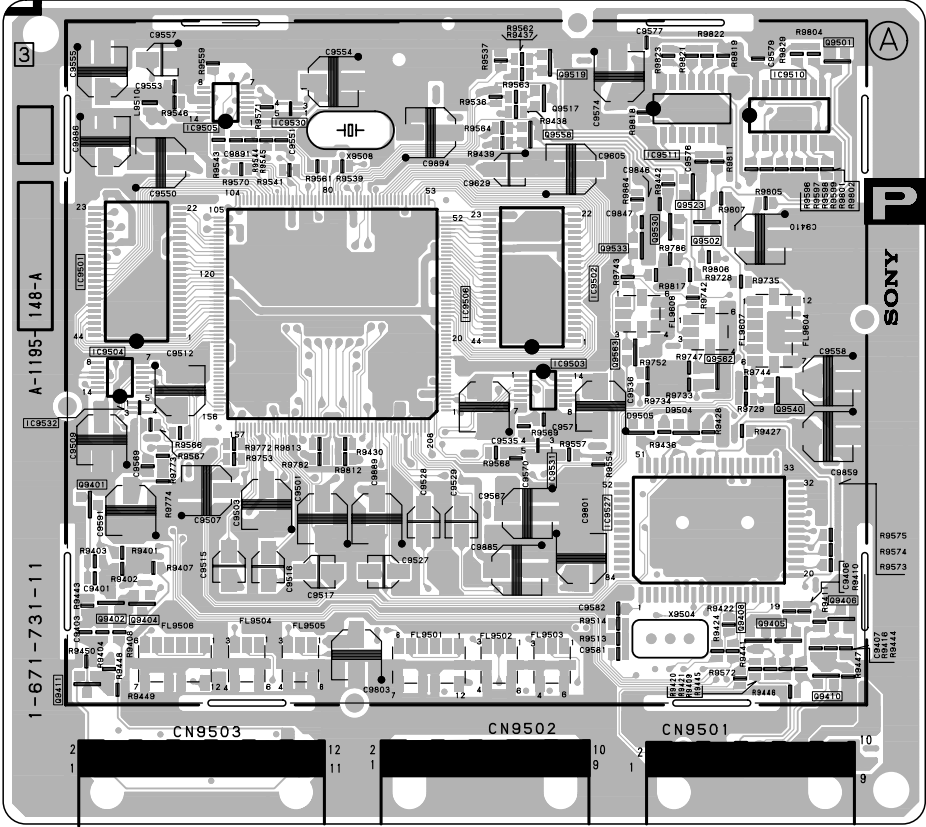
P



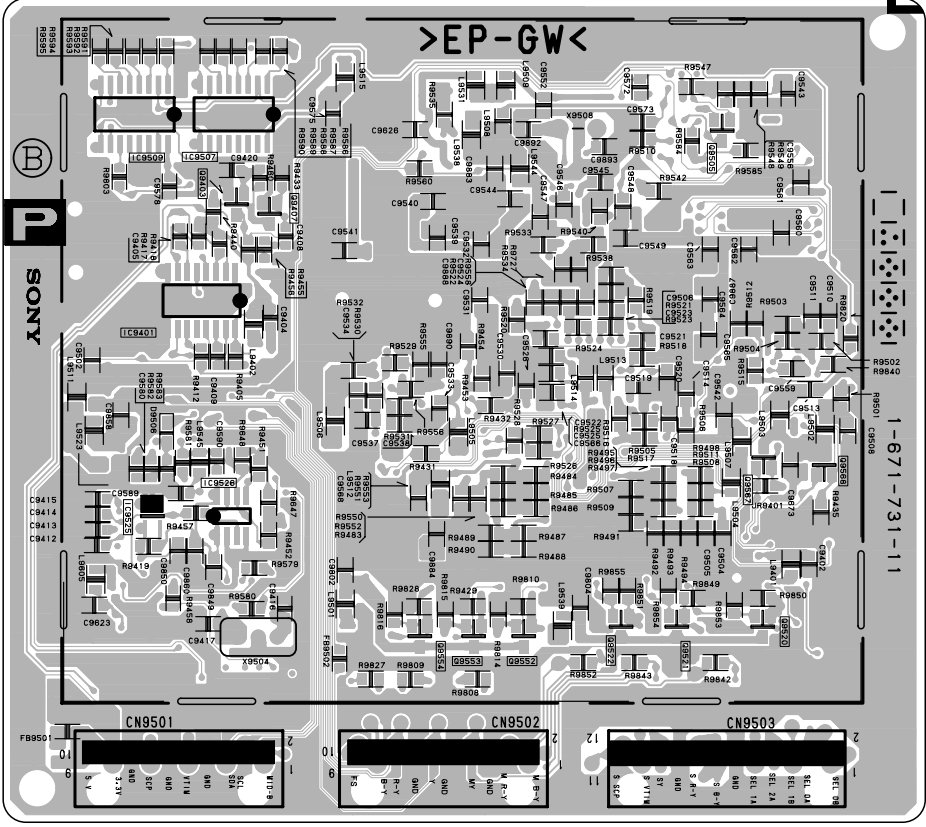


P [MULTI IMAGE DRIVER]

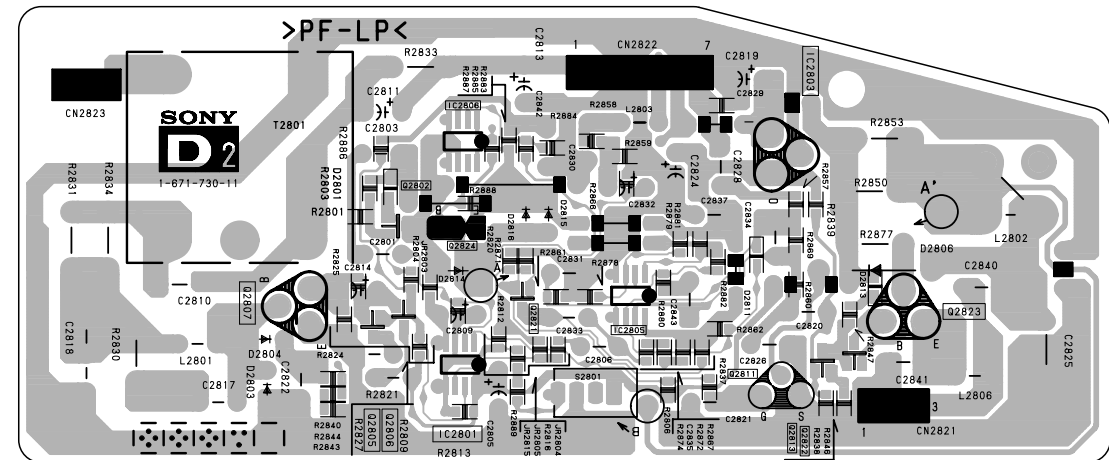
— P BOARD —
<Component Side>



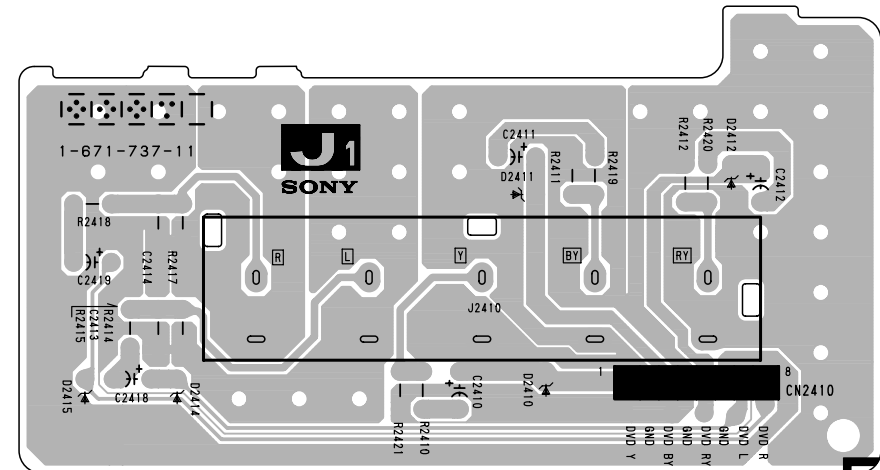
<Conductor Side>



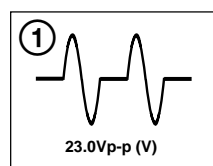
– D2 BOARD –

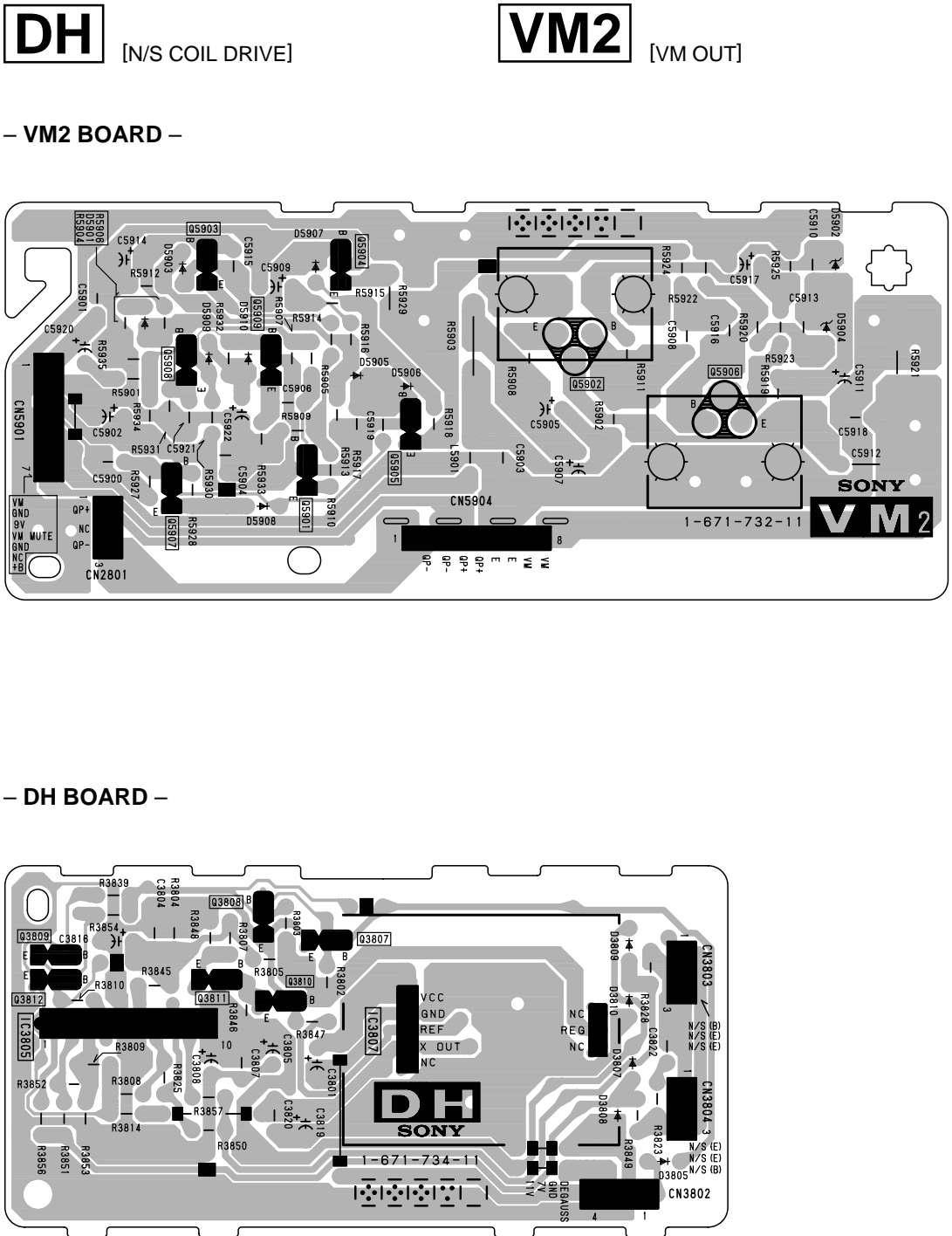


– J1 BOARD –

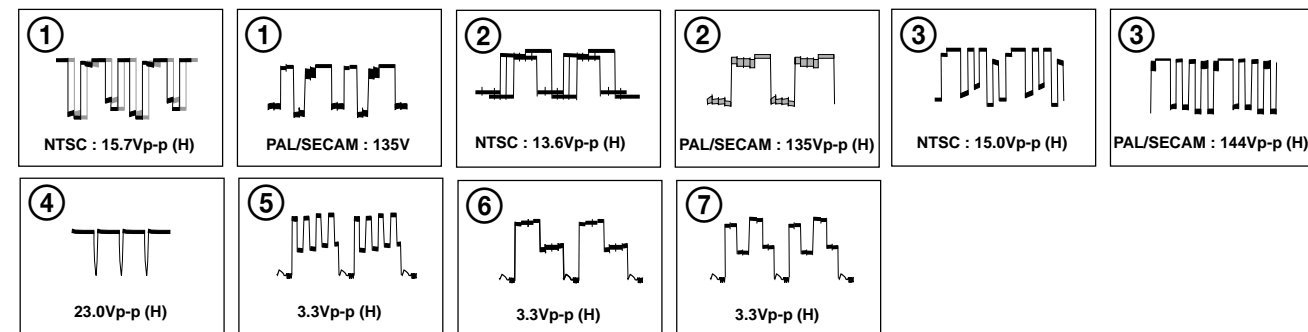
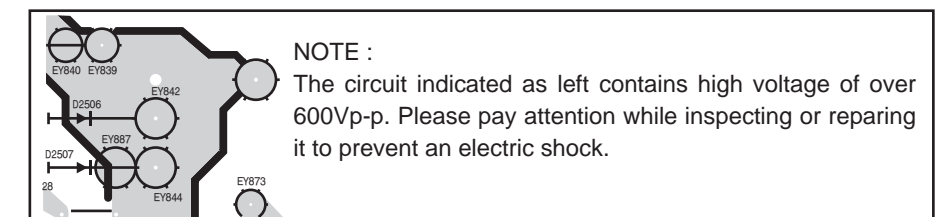
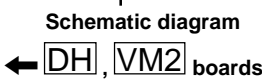


D2 BOARD WAVEFORM





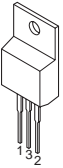
DH BOARD * MARK LIST			
Ref. No.	KV-EF34M80(ME) KV-EF34M90(HK)	KV-EF34M90(JE) KV-EF34M91(ME)	KV-EF34M31(OCE) KV-EF34M61(GE)
R3805	1.8k 1/4W		2.7k 1/4W



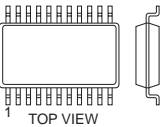
5-5. SEMICONDUCTORS

IC

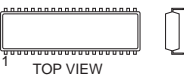
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BA05T



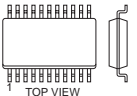
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LM358D
MC74F163AM
MM1115XFBB
NJM2903M
SN74LS164NS
SN74LS221NS
TDA7315D013TR
TLC29321PW



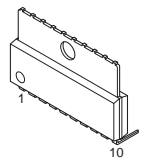
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ST24C08FB6



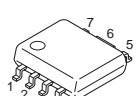
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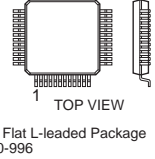
LA6510



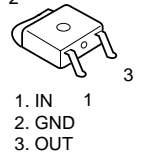
MM1319AFBE



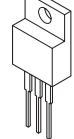
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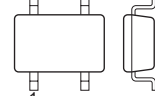
NJM78M05DLA(TE1)



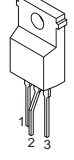
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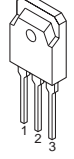
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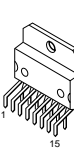
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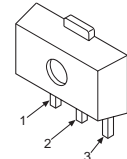
STRF6656



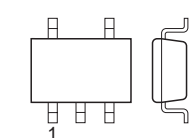
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TDA7481



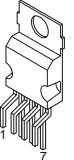
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TC7SET08FU



TDA8172

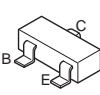


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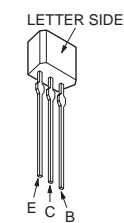


TRANSISTOR

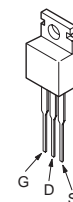
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DTC114EK
DTC114EKA
2SA1162-G
2SC2712-YG
2SC4973
2SD2114K



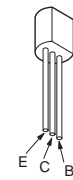
DTC144ESA
2SA1175-HFE
2SC2785-HFE



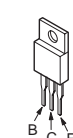
IRF614



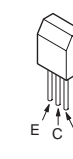
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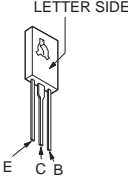
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2SD2394-EF



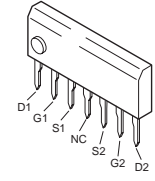
2SB734-34
2SD774-34



2SC3840



2SC4927-01



2SD2144S-UWM

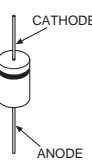


2SK2845-LB102

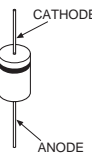


DIODE

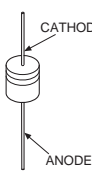
AK04V1
AU01ZV1
EGP20G
EL1Z
ERA2208
GP08S
HSS83TD
RD33EB3T
RGP02-17EL-6433



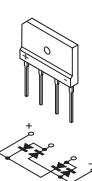
DAP202K



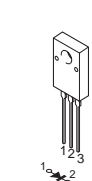
D1N20R
D1US4
1SS119-25
RD11ES-B3
RD20ES-B2
RD30ES-B2
RD39ES-B2
RD6.8ES-B1
11SQS04



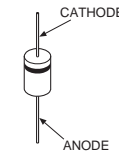
D4SB60L



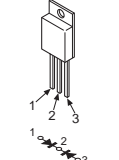
D5LC20U



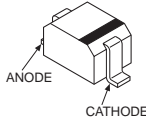
ERC04-06SE
S2LA20F



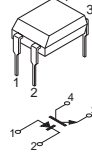
FMUG26S



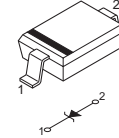
MA111
RD10S-B
RD5.1SB-T2
RD5.6S-B
RD9.1S-B



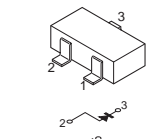
ON3171-R



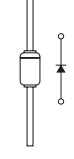
RD155B2



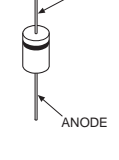
RD3.3M-B2
RD5.6M-B2
02CZ6.2-TE85L



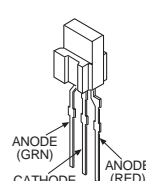
RD9.1ES-L2



RU-1P



SPB-26MVWF



KV-EF34M31/EF34M61/EF34M80/EF34M90/EF34M91
RM-951

SECTION 6
EXPLODED VIEWS

NOTE:

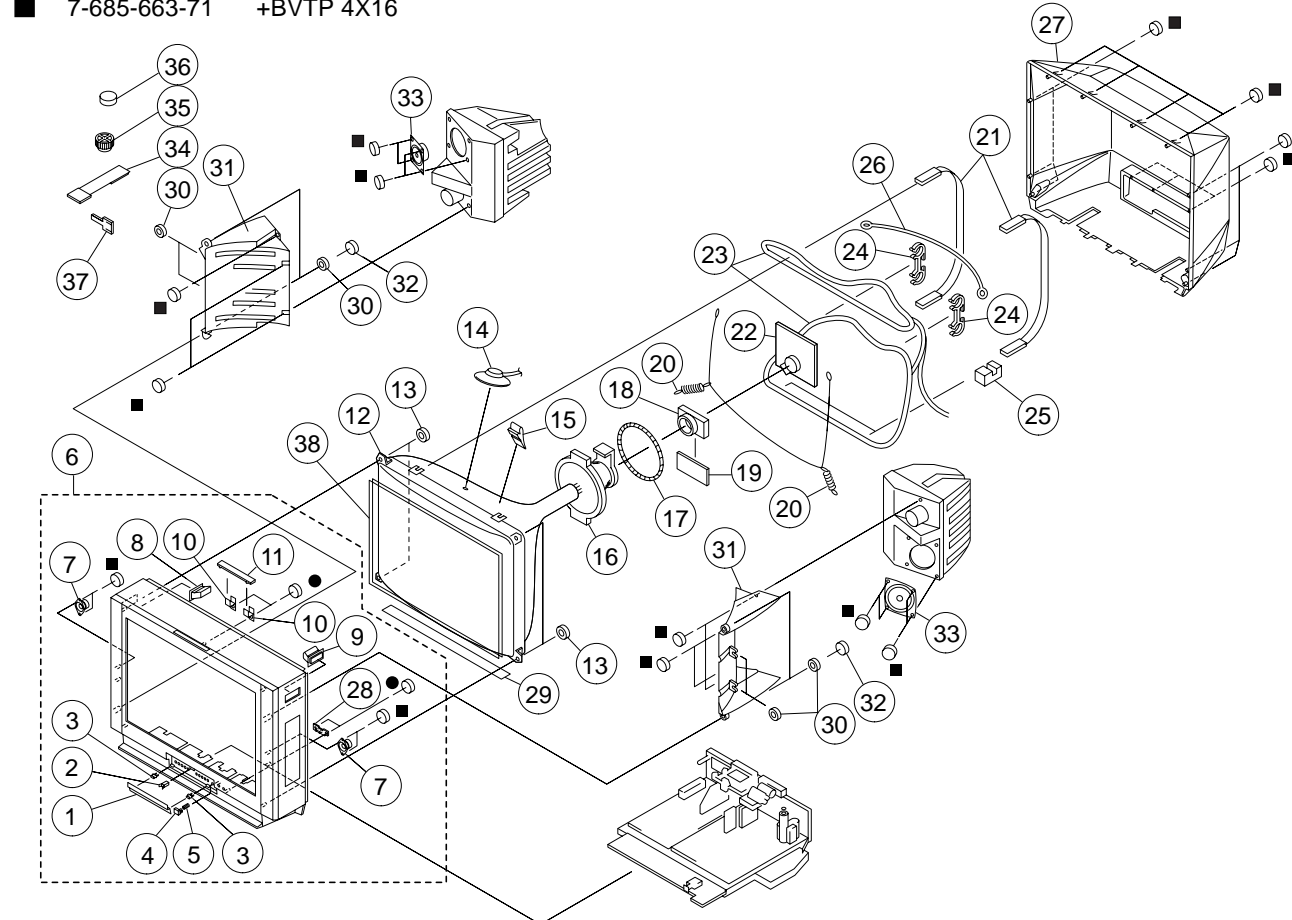
• Items with no part number and no description are not stocked because they are seldom required for routine service.

• The construction parts of an assembled part are indicated with a collation number in the remark column.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

6-1. PICTURE TUBE

- 7-685-648-79 +BVTP 3X12
- 7-685-663-71 +BVTP 4X16



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
1	X-4036-044-4	DOOR ASSY, CONTROL (EF34M61/EF34M91)		16	▲ 8-451-499-11	DEFLECTION YOKE (Y34RSN)	
	X-4036-266-1	DOOR ASSY, CONTROL (EF34M31)		17	1-452-896-61	COIL, NA ROTATION (RT-200)	
	X-4036-265-4	DOOR ASSY, CONTROL (EF34M80)		18	▲ 8-453-007-31	NECK ASSEMBLY NA324-M3	
	X-4036-265-1	DOOR ASSY, CONTROL (EF34M90)		19	* A-1342-440-A	VM2 BOARD, COMPLETE	
2	4-047-464-01	CATCHER, PUSH		20	4-065-852-01	SPRING, EXTENSION	
3	4-045-250-21	DUMPER		21	4-067-087-01	HOLDER (C), DGC	
4	4-062-942-01	BUTTON, POWER		22	* A-1331-868-A	C BOARD, COMPLETE	
5	4-036-405-01	SPRING, COMPRESSION		23	▲ 1-416-757-11	COIL, DEMAGNETIC	
6	X-4036-045-1	BEZNET ASSY (EF34M61/EF34M91)	3-6	24	4-067-221-01	CLIP, DGC	
	X-4036-270-1	BEZNET ASSY (EF34M31)		25	* 4-062-938-02	SUPPORTER, CRT	
	X-4036-268-1	BEZNET ASSY (EF34M80)		26	4-067-455-01	BAND, DEGAUSSING COIL	
	X-4036-269-1	BEZNET ASSY (EF34M90)		27	4-066-040-01	COVER, REAR	
7	1-505-474-11	SPEAKER (5CM)		28	* 4-062-939-02	GUIDE, LIGHT	
8	X-4035-873-4	HANDLE ASSY (LEFT)		29	4-067-447-01	SHEET, BLOTING	
9	X-4035-874-4	HANDLE ASSY (RIGHT)		30	4-374-745-12	CUSHION (A)	
10	* 4-062-943-01	HOLDER, TOP SWITCH		31	4-066-041-01	DUCT, SPEAKER	
11	1-771-360-11	SWITCH, TOP		32	4-064-929-02	SCREW, TP+TWH 4X25	
12	▲ 8-735-050-05	PICTURE TUBE (A80LPD80X) (EF34M61)		33	1-505-473-11	SPEAKER (12CM)	
	▲ 8-735-049-05	PICTURE TUBE (A80LPD80X) (except EF34M61/EF34M90(JE))		34	4-051-734-12	PIECE B (120), CONV. CORRECT	
	▲ 8-735-055-05	PICTURE TUBE (A80LPD80X) (EF34M90(JE))			4-051-734-22	PIECE B (120), CONV. CORRECT	
13	4-387-204-01	NUT, SPECIAL, CRT		35	1-452-094-00	CIRCULAR DISC MAGNET B	
14	1-526-981-71	CAP ASSY, HIGH-VOLTAGE		36	1-452-032-00	MAGNET, DISC ; 10mmø	
15	4-046-600-01	SPACER, DY		37	2-163-920-11	PLATE, CORRECTION, TLV	
				38	1-416-871-03	COIL, LANDING CORRECTION	

The components identified by shading and mark ▲ are critical for safety. Replace only with part number specified.

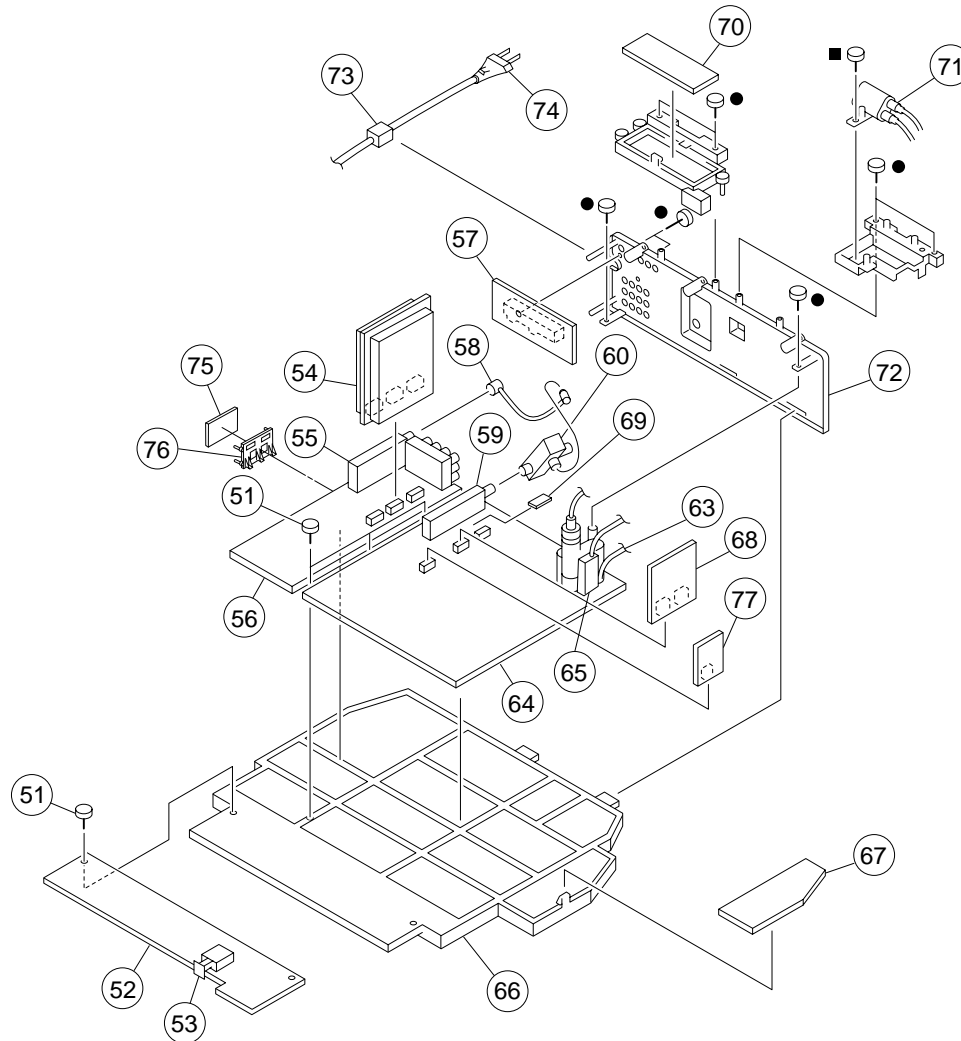
Les composants identifiés par une trame et une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-2. CHASSIS

- 7-685-648-79 +BVTP 3X12
 ■ 7-685-663-71 +BVTP 4X16

Les composants identifiés par une trame et une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	4-046-797-01	SCREW (3X12), +BVTAP		66	* 4-066-681-02	BRACKET, MAIN	
52	* A-1372-556-A	H1 BOARD, COMPLETE		67	* A-1343-584-A	D2 BOARD, COMPLETE	
53	△ 1-571-433-21	SWITCH, PUSH (AC POWER)		68	* A-1342-452-A	V1 BOARD, COMPLETE	
54	* A-1195-148-A	P BOARD, COMPLETE				(EF34M31/EF34M61/EF34M91)	
55	8-598-450-00	TUNER, FSS BTF-LG434		69	* A-1131-391-A	B4 BOARD, COMPLETE	
56	* A-1135-971-A	B BOARD, COMPLETE		70	* A-1343-609-A	DH BOARD, COMPLETE (EF34M61)	
57	* A-1388-226-A	J1 BOARD, COMPLETE			* A-1343-585-A	DH BOARD, COMPLETE	
58	* 1-555-110-00	CABLE, P-P				(except EF34M31/EF34M61)	
59	8-598-452-00	TUNER, FSS BTF-WG442 (except EF34M80)			* A-1343-610-A	DH BOARD, COMPLETE (EF34M31)	
60	1-251-658-21	SPLITTER RF		71	△ 1-467-525-22	CAP. BLOCK, HIGH-VOLTAGE	
63	1-900-241-30	LEAD ASSY, G2 (except EF34M31)		72	4-066-684-04	BRACKET, TERMINAL	
	1-900-243-56	LEAD ASSY, G2 (EF34M31)		73	4-022-115-00	HOLDER, AC CORD (EF34M91)	
64	* A-1298-745-A	A BOARD, COMPLETE (EF34M61)		74	△ 1-574-062-12	CORD, POWER (WITH CONNECTOR)	
	* A-1298-757-A	A BOARD, COMPLETE (EF34M80)				2.5A/250V (except EF34M90(HK))	
	* A-1298-756-A	A BOARD, COMPLETE (EF34M91)			△ 1-769-609-21	CORD, POWER (WITH CONNECTOR)	
	* A-1298-765-A	A BOARD, COMPLETE (EF34M90 (JE))				(EF34M90(HK))	
	* A-1298-764-A	A BOARD, COMPLETE (EF34M90 (HK))		75	* A-1241-340-A	F BOARD, COMPLETE	
	* A-1298-766-A	A BOARD, COMPLETE (EF34M31)		76	* 4-066-683-02	HOLDER, PWB	
65	△ X-4036-321-1	TRANSFORMER ASSY, FLYBACK		77	8-742-166-00	IC, SBX3005-01	
		(NX-4009/J1A4)					

SECTION 7

ELECTRICAL PARTS LIST

B

NOTE:

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

• The components identified by Δ in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

• CAPACITORS
PF : $\mu\mu$ F

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1135-971-A B BOARD, COMPLETE *****				C1254	1-136-177-00	FILM 1MF	5% 50V
4-382-854-11 SCREW (M3X10), P, SW (+)				C1255	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
<CAPACITOR>				C1256	1-127-682-51	ELECT MELF 2200MF	20% 25V
C1201	1-107-725-11	CERAMIC CHIP 0.1MF	10% 16V	C1258	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C1202	1-107-725-11	CERAMIC CHIP 0.1MF	10% 16V	C1259	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C1203	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C1260	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V
C1204	1-115-419-11	CERAMIC CHIP 3300PF	5% 25V	C1263	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C1205	1-115-419-11	CERAMIC CHIP 3300PF	5% 25V	C1264	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C1206	1-126-965-11	ELECT 22MF	20% 50V	C1265	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C1207	1-107-725-11	CERAMIC CHIP 0.1MF	10% 16V	C1266	1-136-177-00	FILM 1MF	5% 50V
C1208	1-126-023-11	ELECT 100MF	20% 16V	C1267	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V
C1209	1-164-505-11	CERAMIC CHIP 2.2MF	16V	C1268	1-127-682-51	ELECT MELF 2200MF	20% 25V
C1210	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1270	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C1211	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	C1271	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C1212	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1273	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1213	1-164-492-11	CERAMIC CHIP 0.15MF	10% 16V	C1274	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V
C1214	1-126-055-11	ELECT 470MF	20% 50V	C1275	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C1215	1-126-055-11	ELECT 470MF	20% 50V	C1276	1-163-007-11	CERAMIC CHIP 680PF	10% 50V
C1219	1-126-961-11	ELECT 2.2MF	20% 50V	C1277	1-164-690-91	CERAMIC CHIP 0.0022MF	5% 50V
C1220	1-126-961-11	ELECT 2.2MF	20% 50V	C1279	1-164-690-91	CERAMIC CHIP 0.0022MF	5% 50V
C1221	1-126-933-11	ELECT 100MF	20% 16V	C1281	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C1222	1-136-171-00	FILM 0.33MF	5% 50V	C1282	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V
C1223	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C1283	1-164-690-91	CERAMIC CHIP 0.0022MF	5% 50V
C1224	1-164-346-11	CERAMIC CHIP 1MF	16V	C1284	1-164-690-91	CERAMIC CHIP 0.0022MF	5% 50V
C1225	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1301	1-126-967-11	ELECT 47MF	20% 50V
C1226	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C1303	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1227	1-126-963-11	ELECT 4.7MF	20% 50V	C1304	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1228	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1305	1-163-243-11	CERAMIC CHIP 47PF	5% 50V
C1229	1-164-346-11	CERAMIC CHIP 1MF	16V	C1306	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C1231	1-126-964-11	ELECT 10MF	20% 50V	C1307	1-126-933-11	ELECT 100MF	20% 16V
C1232	1-126-022-11	ELECT 47MF	20% 16V	C1308	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1233	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1309	1-126-963-11	ELECT 4.7MF	20% 50V
C1234	1-164-346-11	CERAMIC CHIP 1MF	16V	C1310	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1235	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	C1311	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C1236	1-126-963-11	ELECT 4.7MF	20% 50V	C1312	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1237	1-164-346-11	CERAMIC CHIP 1MF	16V	C1313	1-126-964-11	ELECT 10MF	20% 50V
C1238	1-164-005-11	CERAMIC CHIP 0.47MF	25V	C1314	1-126-957-11	ELECT 0.22MF	20% 50V
C1239	1-136-171-00	FILM 0.33MF	5% 50V	C1315	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C1240	1-163-989-11	CERAMIC CHIP 0.033MF	10% 25V	C1316	1-126-963-11	ELECT 4.7MF	20% 50V
C1241	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	C1317	1-126-933-11	ELECT 100MF	20% 16V
C1242	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C1318	1-107-725-11	CERAMIC CHIP 0.1MF	10% 16V
C1243	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	C1319	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1244	1-110-617-51	ELECT 2200MF	20% 50V	C1320	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1245	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	C1321	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1246	1-107-823-11	CERAMIC CHIP 0.47MF	10% 16V	C1323	1-126-967-11	ELECT 47MF	20% 50V
C1247	1-163-275-11	CERAMIC CHIP 0.001MF	5% 50V	C1324	1-126-967-11	ELECT 47MF	20% 50V
C1248	1-110-617-51	ELECT 2200MF	20% 50V	C1325	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C1251	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V	C1326	1-126-933-11	ELECT 100MF	20% 16V
C1252	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	C1327	1-107-725-11	CERAMIC CHIP 0.1MF	10% 16V
C1253	1-115-339-11	CERAMIC CHIP 0.1MF	10% 50V	C1328	1-104-665-11	ELECT 100MF	20% 25V
				C1329	1-163-038-91	CERAMIC CHIP 0.1MF	25V
				C1330	1-126-965-11	ELECT 22MF	20% 50V
				C1331	1-163-038-91	CERAMIC CHIP 0.1MF	25V

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
C1332	1-126-960-11	ELECT	1MF	20%	50V	C3360	1-104-664-11	ELECT	47MF	20%	25V
C1333	1-126-933-11	ELECT	100MF	20%	16V						
C1334	1-126-933-11	ELECT	100MF	20%	16V	C3361	1-126-964-11	ELECT	10MF	20%	50V
C1335	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	C3362	1-126-964-11	ELECT	10MF	20%	50V
C1336	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C3363	1-104-664-11	ELECT	47MF	20%	25V
						C3364	1-126-964-11	ELECT	10MF	20%	50V
C1337	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C3365	1-126-964-11	ELECT	10MF	20%	50V
C1342	1-164-005-11	CERAMIC CHIP	0.47MF		25V						
C1345	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C3370	1-164-346-11	CERAMIC CHIP	1MF		16V
C1350	1-163-243-11	CERAMIC CHIP	47PF	5%	50V	C3372	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C1352	1-164-005-11	CERAMIC CHIP	0.47MF		25V	C3373	1-126-964-11	ELECT	10MF	20%	50V
						C3374	1-126-964-11	ELECT	10MF	20%	50V
C1353	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C3375	1-126-964-11	ELECT	10MF	20%	50V
C1354	1-163-038-91	CERAMIC CHIP	0.1MF		25V						
C1356	1-126-768-11	ELECT	2200MF	20%	16V	C3379	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1358	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V	C3380	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C1359	1-164-005-11	CERAMIC CHIP	0.47MF		25V	C5201	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
						C5202	1-126-967-11	ELECT	47MF	20%	50V
C1360	1-164-005-11	CERAMIC CHIP	0.47MF		25V	C5203	1-126-963-11	ELECT	4.7MF	20%	50V
C3301	1-104-664-11	ELECT	47MF	20%	25V						
C3302	1-163-038-91	CERAMIC CHIP	0.1MF		25V	C5204	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3303	1-104-664-11	ELECT	47MF	20%	25V	C5205	1-127-532-11	ELECT	47MF	20%	6.3V
C3304	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C5206	1-126-967-11	ELECT	47MF	20%	50V
						C5207	1-127-532-11	ELECT	47MF	20%	6.3V
C3306	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5208	1-126-967-11	ELECT	47MF	20%	50V
C3307	1-126-933-11	ELECT	100MF	20%	16V						
C3308	1-126-964-11	ELECT	10MF	20%	50V	C5209	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3310	1-126-964-11	ELECT	10MF	20%	50V	C5210	1-126-963-11	ELECT	4.7MF	20%	50V
C3312	1-104-664-11	ELECT	47MF	20%	25V	C5211	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
						C5212	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C3313	1-126-935-11	ELECT	470MF	20%	16V	C5213	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C3314	1-164-346-11	CERAMIC CHIP	1MF		16V						
C3315	1-104-664-11	ELECT	47MF	20%	25V	C5214	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C3316	1-164-346-11	CERAMIC CHIP	1MF		16V	C5215	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C3317	1-104-664-11	ELECT	47MF	20%	25V	C5216	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
						C5217	1-126-967-11	ELECT	47MF	20%	50V
C3318	1-163-031-11	CERAMIC CHIP	0.01MF		50V	C5218	1-126-967-11	ELECT	47MF	20%	50V
C3319	1-163-251-11	CERAMIC CHIP	100PF	5%	50V						
C3320	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C5219	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3322	1-164-346-11	CERAMIC CHIP	1MF		16V	C5220	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3323	1-164-346-11	CERAMIC CHIP	1MF		16V	C5221	1-127-532-11	ELECT	47MF	20%	6.3V
						C5223	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C3324	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5224	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C3325	1-164-346-11	CERAMIC CHIP	1MF		16V						
C3326	1-164-346-11	CERAMIC CHIP	1MF		16V	C5225	1-126-963-11	ELECT	4.7MF	20%	50V
C3327	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	C5226	1-126-963-11	ELECT	4.7MF	20%	50V
C3328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C5227	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
						C5228	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3329	1-126-966-11	ELECT	33MF	20%	50V	C5229	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3330	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V						
C3331	1-126-933-11	ELECT	100MF	20%	16V	C5230	1-126-967-11	ELECT	47MF	20%	50V
C3332	1-104-664-11	ELECT	47MF	20%	25V	C5231	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3333	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	C5232	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
						C5233	1-126-960-11	ELECT	1MF	20%	50V
C3334	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C5234	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3335	1-163-038-91	CERAMIC CHIP	0.1MF		25V						
C3336	1-126-933-11	ELECT	100MF	20%	16V	C5235	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3338	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C5237	1-126-933-11	ELECT	100MF	20%	16V
C3339	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C5238	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
						C5239	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C3340	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C5240	1-126-933-11	ELECT	100MF	20%	16V
C3341	1-163-133-00	CERAMIC CHIP	470PF	5%	50V						
C3342	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C5241	1-126-933-11	ELECT	100MF	20%	16V
C3343	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C5242	1-164-346-11	CERAMIC CHIP	1MF		16V
C3344	1-164-005-11	CERAMIC CHIP	0.47MF		25V	C5243	1-164-346-11	CERAMIC CHIP	1MF		16V
						C5247	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C3345	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C5248	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C3346	1-163-133-00	CERAMIC CHIP	470PF	5%	50V						
C3347	1-126-964-11	ELECT	10MF	20%	50V	C5249	1-164-690-91	CERAMIC CHIP	0.0022MF	5%	50V
C3348	1-164-005-11	CERAMIC CHIP	0.47MF		25V	C5300	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3349	1-126-933-11	ELECT	100MF	20%	16V	C5302	1-164-005-11	CERAMIC CHIP	0.47MF		25V
						C5304	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3350	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C5306	1-164-005-11	CERAMIC CHIP	0.47MF		25V
C3351	1-163-005-11	CERAMIC CHIP	470PF	10%	50V						
C3352	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	C5308	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C3353	1-126-933-11	ELECT	100MF	20%	16V	C5309	1-164-346-11	CERAMIC CHIP	1MF		16V
C3354	1-126-967-11	ELECT	47MF	20%	50V	C5310	1-164-346-11	CERAMIC CHIP	1MF		16V
						C5311	1-164-346-11	CERAMIC CHIP	1MF		16V
C3355	1-126-967-11	ELECT	47MF	20%	50V	C5312	1-164-346-11	CERAMIC CHIP	1MF		16V
C3356	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V						
C3357	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V	C5313	1-164-346-11	CERAMIC CHIP	1MF		16V
C3358	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	C5314	1-164-346-11	CERAMIC CHIP	1MF		16V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C5315	1-163-243-11	CERAMIC CHIP 47PF	5% 50V	FB5208	1-414-598-11	INDUCTOR CHIP 0UH	
C5317	1-164-005-11	CERAMIC CHIP 0.47MF	25V	FB5209	1-414-598-11	INDUCTOR CHIP 0UH	
C5318	1-126-967-11	ELECT 47MF	20% 50V				
C5319	1-163-249-11	CERAMIC CHIP 82PF	5% 50V			<FILTER>	
C5320	1-163-249-11	CERAMIC CHIP 82PF	5% 50V				
C5322	1-164-005-11	CERAMIC CHIP 0.47MF	25V	FL5201	1-239-803-11	ENCAPSULATED COMPONENT	
C5323	1-163-121-00	CERAMIC CHIP 150PF	5% 50V			<IC>	
C5324	1-163-113-00	CERAMIC CHIP 68PF	5% 50V				
C5325	1-163-249-11	CERAMIC CHIP 82PF	5% 50V	IC1201	8-759-273-12	IC TDA7315D013TR	
C5326	1-163-249-11	CERAMIC CHIP 82PF	5% 50V	IC1202	8-759-100-96	IC uPC4558G2	
C5328	1-164-005-11	CERAMIC CHIP 0.47MF	25V	IC1203	8-759-553-45	IC TDA7481	
C5329	1-163-121-00	CERAMIC CHIP 150PF	5% 50V	IC1204	8-759-553-45	IC TDA7481	
C5330	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	IC1301	8-752-088-39	IC CXA2130S	
C5331	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V	IC1302	8-759-542-15	IC TDA9178	
C5332	1-163-259-91	CERAMIC CHIP 220PF	5% 50V	IC1303	8-759-231-53	IC TA7805S	
		<CONNECTOR>		IC1304	8-759-445-59	IC BA033T	
CN1201	* 1-564-506-11	PLUG, CONNECTOR 3P		IC1305	8-759-701-59	IC NJM78M09FA	
CN1204	* 1-564-507-11	PLUG, CONNECTOR 4P		IC1307	8-759-278-95	IC BA7606F	
CN1205	* 1-564-507-11	PLUG, CONNECTOR 4P		IC1308	8-759-439-64	IC HEF4053BT	
CN1301	* 1-564-506-11	PLUG, CONNECTOR 3P		IC1309	8-759-439-64	IC HEF4053BT	
CN1303	* 1-564-511-11	PLUG, CONNECTOR 8P		IC1310	8-759-450-47	IC BA05T	
CN1304	* 1-779-891-11	CONNECTOR, BOARD TO BOARD 8P		IC1311	8-759-337-26	IC MM1115XFBE	
CN1305	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		IC3302	8-759-100-96	IC uPC4558G2	
CN1306	* 1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		IC3303	8-752-068-46	IC CXA1855S	
CN1307	* 1-779-891-11	CONNECTOR, BOARD TO BOARD 8P		IC5201	8-759-549-74	IC TC9447F-003	
CN1308	* 1-573-296-21	CONNECTOR, BOARD TO BOARD 10P		IC5202	8-759-042-02	IC S-80743AL-A7-S	
CN1309	1-764-818-11	CONNECTOR, BOARD TO BOARD 10P		IC5203	8-759-358-38	IC NJM78M05DLA(TE1)	
CN1310	1-764-820-11	CONNECTOR, BOARD TO BOARD 12P		IC5204	8-759-100-96	IC uPC4558G2	
CN1311	* 1-564-506-11	PLUG, CONNECTOR 3P				<JACK>	
CN1312	* 1-508-784-21	PIN, CONNECTOR (5mm PITCH) 1P		J3301	1-784-646-11	TERMINAL, S	
CN1313	* 1-564-509-11	PLUG, CONNECTOR 6P		J3302	1-778-387-11	JACK BLOCK, PIN 12P	
		<DIODE>				<CHIP CONDUCTOR>	
D1201	8-719-404-49	DIODE MA111		JR1205	1-216-295-91	SHORT	0
D1202	8-719-404-49	DIODE MA111		JR1206	1-216-295-91	SHORT	0
D1203	8-719-404-49	DIODE MA111		JR1207	1-216-295-91	SHORT	0
D1204	8-719-404-49	DIODE MA111		JR1208	1-216-295-91	SHORT	0
D1205	8-719-158-35	DIODE RD9.1SB		JR1209	1-216-295-91	SHORT	0
D1302	8-719-404-49	DIODE MA111		JR1301	1-216-295-91	SHORT	0
D1306	8-719-908-03	DIODE GP08D		JR1305	1-216-295-91	SHORT	0
D3301	8-719-158-35	DIODE RD9.1SB		JR1311	1-216-295-91	SHORT	0
D3302	8-719-158-35	DIODE RD9.1SB		JR5203	1-216-295-91	SHORT	0
D3303	8-719-158-35	DIODE RD9.1SB				<COIL>	
D3304	8-719-158-35	DIODE RD9.1SB		L1201	1-414-187-11	INDUCTOR 47UH	
D3305	8-719-158-35	DIODE RD9.1SB		L1202	1-416-857-11	INDUCTOR 65UH	
D3306	8-719-158-35	DIODE RD9.1SB		L1203	1-416-857-11	INDUCTOR 65UH	
D3307	8-719-158-35	DIODE RD9.1SB		L1301	1-414-189-31	INDUCTOR 100UH	
D3308	8-719-158-35	DIODE RD9.1SB		L1302	1-412-537-31	INDUCTOR 100UH	
D3309	8-719-158-35	DIODE RD9.1SB		L1303	1-414-185-41	INDUCTOR 22UH	
D3310	8-719-158-35	DIODE RD9.1SB		L1304	1-412-537-31	INDUCTOR 100UH	
D3311	8-719-158-35	DIODE RD9.1SB		L1305	1-414-186-31	INDUCTOR 33UH	
D3312	8-719-158-35	DIODE RD9.1SB		L1306	1-414-857-11	INDUCTOR 100UH	
		<FERRITE BEAD>		L1307	1-414-187-11	INDUCTOR 47UH	
FB1205	1-410-397-21	FERRITE 1.1UH		L1308	1-414-187-11	INDUCTOR 47UH	
FB1206	1-410-397-21	FERRITE 1.1UH		L1309	1-414-857-11	INDUCTOR 100UH	
FB1207	1-410-397-21	FERRITE 1.1UH		L1310	1-414-187-11	INDUCTOR 47UH	
FB1208	1-410-397-21	FERRITE 1.1UH		L1311	1-414-187-11	INDUCTOR 47UH	
FB5201	1-410-397-21	FERRITE 1.1UH		L1312	1-414-856-11	INDUCTOR 10UH	
FB5202	1-414-598-11	INDUCTOR CHIP 0UH		L1313	1-414-856-11	INDUCTOR 10UH	
FB5203	1-414-598-11	INDUCTOR CHIP 0UH		L1314	1-414-856-11	INDUCTOR 10UH	
FB5204	1-414-598-11	INDUCTOR CHIP 0UH		L3302	1-414-856-11	INDUCTOR 10UH	
FB5205	1-414-598-11	INDUCTOR CHIP 0UH		L3303	1-414-856-11	INDUCTOR 10UH	
FB5206	1-414-598-11	INDUCTOR CHIP 0UH		L3304	1-414-856-11	INDUCTOR 10UH	
FB5207	1-414-598-11	INDUCTOR CHIP 0UH					

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
L3305	1-414-856-11	INDUCTOR 10UH		Q3326	8-729-230-49	TRANSISTOR 2SC2712-YG	
L3306	1-414-856-11	INDUCTOR 10UH		Q5300	8-729-216-22	TRANSISTOR 2SA1162-G	
L5201	1-408-595-31	INDUCTOR 2.2UH		Q5301	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<IC LINK>		Q5302	8-729-230-49	TRANSISTOR 2SC2712-YG	
PS1201	1-532-686-21	LINK, IC 2.7A/150V		Q5303	8-729-216-22	TRANSISTOR 2SA1162-G	
PS1202	1-532-686-21	LINK, IC 2.7A/150V		Q5304	8-729-230-49	TRANSISTOR 2SC2712-YG	
PS1203	1-532-686-21	LINK, IC 2.7A/150V		Q5305	8-729-230-49	TRANSISTOR 2SC2712-YG	
PS1204	1-532-686-21	LINK, IC 2.7A/150V		Q5306	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<TRANSISTOR>		Q5307	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1201	8-729-224-62	TRANSISTOR 2SK246-GR		Q5308	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1202	8-729-230-49	TRANSISTOR 2SC2712-YG		Q5309	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q1203	8-729-230-49	TRANSISTOR 2SC2712-YG		Q5310	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1204	8-729-224-62	TRANSISTOR 2SK246-GR				<RESISTOR>	
Q1205	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1201	1-216-033-00	RES,CHIP 220 5%	1/10W
Q1206	8-729-230-49	TRANSISTOR 2SC2712-YG		R1202	1-216-033-00	RES,CHIP 220 5%	1/10W
Q1207	8-729-230-49	TRANSISTOR 2SC2712-YG		R1203	1-216-067-00	RES,CHIP 5.6K 5%	1/10W
Q1301	8-729-230-49	TRANSISTOR 2SC2712-YG		R1204	1-216-067-00	RES,CHIP 5.6K 5%	1/10W
Q1302	8-729-216-22	TRANSISTOR 2SA1162-G		R1205	1-216-089-91	RES,CHIP 47K 5%	1/10W
Q1303	8-729-230-49	TRANSISTOR 2SC2712-YG		R1206	1-216-089-91	RES,CHIP 47K 5%	1/10W
Q1304	8-729-230-49	TRANSISTOR 2SC2712-YG		R1207	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1305	8-729-230-49	TRANSISTOR 2SC2712-YG		R1208	1-216-097-91	RES,CHIP 100K 5%	1/10W
Q1306	8-729-230-49	TRANSISTOR 2SC2712-YG		R1209	1-216-121-91	RES,CHIP 1M 5%	1/10W
Q1307	8-729-216-22	TRANSISTOR 2SA1162-G		R1210	1-216-097-91	RES,CHIP 100K 5%	1/10W
Q1308	8-729-230-49	TRANSISTOR 2SC2712-YG		R1211	1-216-097-91	RES,CHIP 100K 5%	1/10W
Q1309	8-729-230-49	TRANSISTOR 2SC2712-YG		R1212	1-216-061-00	RES,CHIP 3.3K 5%	1/10W
Q1310	8-729-230-49	TRANSISTOR 2SC2712-YG		R1213	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q1311	8-729-216-22	TRANSISTOR 2SA1162-G		R1214	1-216-039-00	RES,CHIP 390 5%	1/10W
Q1313	8-729-230-49	TRANSISTOR 2SC2712-YG		R1215	1-216-101-00	RES,CHIP 150K 5%	1/10W
Q1314	8-729-230-49	TRANSISTOR 2SC2712-YG		R1216	1-216-113-00	RES,CHIP 470K 5%	1/10W
Q1315	8-729-230-49	TRANSISTOR 2SC2712-YG		R1217	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q1316	8-729-216-22	TRANSISTOR 2SA1162-G		R1218	1-216-097-91	RES,CHIP 100K 5%	1/10W
Q1318	8-729-230-49	TRANSISTOR 2SC2712-YG		R1219	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q1320	8-729-230-49	TRANSISTOR 2SC2712-YG		R1220	1-216-097-91	RES,CHIP 100K 5%	1/10W
Q1321	8-729-216-22	TRANSISTOR 2SA1162-G		R1221	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1322	8-729-230-49	TRANSISTOR 2SC2712-YG		R1222	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q1323	8-729-216-22	TRANSISTOR 2SA1162-G		R1223	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q1324	8-729-230-49	TRANSISTOR 2SC2712-YG		R1224	1-216-101-00	RES,CHIP 150K 5%	1/10W
Q1325	8-729-230-49	TRANSISTOR 2SC2712-YG		R1225	1-216-113-00	RES,CHIP 470K 5%	1/10W
Q1326	8-729-230-49	TRANSISTOR 2SC2712-YG		R1226	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
Q1329	8-729-230-49	TRANSISTOR 2SC2712-YG		R1227	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q1332	8-729-216-22	TRANSISTOR 2SA1162-G		R1228	1-216-097-91	RES,CHIP 100K 5%	1/10W
Q1340	8-729-230-49	TRANSISTOR 2SC2712-YG		R1229	1-216-121-91	RES,CHIP 1M 5%	1/10W
Q1342	8-729-230-49	TRANSISTOR 2SC2712-YG		R1230	1-216-097-91	RES,CHIP 100K 5%	1/10W
Q1343	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1231	1-216-097-91	RES,CHIP 100K 5%	1/10W
Q1344	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1232	1-216-061-00	RES,CHIP 3.3K 5%	1/10W
Q1345	8-729-230-49	TRANSISTOR 2SC2712-YG		R1233	1-216-069-00	RES,CHIP 6.8K 5%	1/10W
Q3301	8-729-230-49	TRANSISTOR 2SC2712-YG		R1234	1-216-039-00	RES,CHIP 390 5%	1/10W
Q3302	8-729-216-22	TRANSISTOR 2SA1162-G		R1236	1-208-808-11	RES,CHIP 12K 0.50%	1/10W
Q3303	8-729-230-49	TRANSISTOR 2SC2712-YG		R1237	1-216-085-00	RES,CHIP 33K 5%	1/10W
Q3304	8-729-230-49	TRANSISTOR 2SC2712-YG		R1238	1-216-081-00	RES,CHIP 22K 5%	1/10W
Q3305	8-729-230-49	TRANSISTOR 2SC2712-YG		R1239	1-216-067-00	RES,CHIP 5.6K 5%	1/10W
Q3306	8-729-230-49	TRANSISTOR 2SC2712-YG		R1240	1-216-085-00	RES,CHIP 33K 5%	1/10W
Q3307	8-729-216-22	TRANSISTOR 2SA1162-G		R1241	1-215-890-11	METAL OXIDE 470 5%	2W F
Q3308	8-729-230-49	TRANSISTOR 2SC2712-YG		R1242	1-215-890-11	METAL OXIDE 470 5%	2W F
Q3309	8-729-230-49	TRANSISTOR 2SC2712-YG		R1244	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q3310	8-729-230-49	TRANSISTOR 2SC2712-YG		R1246	1-208-808-11	RES,CHIP 12K 0.50%	1/10W
Q3311	8-729-230-49	TRANSISTOR 2SC2712-YG		R1247	1-216-085-00	RES,CHIP 33K 5%	1/10W
Q3312	8-729-230-49	TRANSISTOR 2SC2712-YG		R1252	1-216-073-00	RES,CHIP 10K 5%	1/10W
Q3313	8-729-230-49	TRANSISTOR 2SC2712-YG		R1260	1-216-029-00	RES,CHIP 150 5%	1/10W
Q3314	8-729-230-49	TRANSISTOR 2SC2712-YG		R1261	1-216-029-00	RES,CHIP 150 5%	1/10W
Q3315	8-729-230-49	TRANSISTOR 2SC2712-YG		R1264	1-216-041-00	RES,CHIP 470 5%	1/10W
Q3316	8-729-216-22	TRANSISTOR 2SA1162-G		R1265	1-216-041-00	RES,CHIP 470 5%	1/10W
Q3321	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1266	1-216-049-91	RES,CHIP 1K 5%	1/10W
Q3322	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1278	1-216-033-00	RES,CHIP 220 5%	1/10W
Q3325	1-801-806-11	TRANSISTOR DTC144EKA-T146		R1279	1-216-033-00	RES,CHIP 220 5%	1/10W
				R1280	1-216-029-00	RES,CHIP 150 5%	1/10W
				R1281	1-216-029-00	RES,CHIP 150 5%	1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R1301	1-216-049-91	RES,CHIP	1K 5% 1/10W	R1376	1-216-097-91	RES,CHIP	100K 5% 1/10W
R1302	1-216-025-91	RES,CHIP	100 5% 1/10W	R1377	1-216-121-91	RES,CHIP	1M 5% 1/10W
R1304	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1378	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1305	1-216-025-91	RES,CHIP	100 5% 1/10W	R1379	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1306	1-216-025-91	RES,CHIP	100 5% 1/10W	R1380	1-216-097-91	RES,CHIP	100K 5% 1/10W
R1307	1-216-081-00	RES,CHIP	22K 5% 1/10W	R1381	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1308	1-216-073-00	RES,CHIP	10K 5% 1/10W	R1382	1-216-095-00	RES,CHIP	82K 5% 1/10W
R1309	1-216-025-91	RES,CHIP	100 5% 1/10W	R1383	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1310	1-216-041-00	RES,CHIP	470 5% 1/10W	R1384	1-216-025-91	RES,CHIP	100 5% 1/10W
R1311	1-216-033-00	RES,CHIP	220 5% 1/10W	R1385	1-216-035-00	RES,CHIP	270 5% 1/10W
R1312	1-216-005-00	RES,CHIP	15 5% 1/10W	R1386	1-216-033-00	RES,CHIP	220 5% 1/10W
R1313	1-216-295-91	SHORT	0	R1387	1-216-041-00	RES,CHIP	470 5% 1/10W
R1314	1-216-041-00	RES,CHIP	470 5% 1/10W	R1388	1-216-041-00	RES,CHIP	470 5% 1/10W
R1315	1-216-041-00	RES,CHIP	470 5% 1/10W	R1389	1-216-017-91	RES,CHIP	47 5% 1/10W
R1316	1-216-025-91	RES,CHIP	100 5% 1/10W	R1390	1-216-033-00	RES,CHIP	220 5% 1/10W
R1317	1-216-075-00	RES,CHIP	12K 5% 1/10W	R1391	1-216-041-00	RES,CHIP	470 5% 1/10W
R1318	1-216-025-91	RES,CHIP	100 5% 1/10W	R1392	1-216-045-00	RES,CHIP	680 5% 1/10W
R1319	1-216-045-00	RES,CHIP	680 5% 1/10W	R1393	1-216-027-00	RES,CHIP	120 5% 1/10W
R1320	1-216-079-00	RES,CHIP	18K 5% 1/10W	R1395	1-216-021-00	RES,CHIP	68 5% 1/10W
R1321	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R1396	1-216-021-00	RES,CHIP	68 5% 1/10W
R1322	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3300	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1323	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3301	1-216-025-91	RES,CHIP	100 5% 1/10W
R1324	1-216-025-91	RES,CHIP	100 5% 1/10W	R3302	1-216-295-91	SHORT	0
R1325	1-216-041-00	RES,CHIP	470 5% 1/10W	R3303	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1326	1-216-025-91	RES,CHIP	100 5% 1/10W	R3304	1-216-025-91	RES,CHIP	100 5% 1/10W
R1327	1-216-025-91	RES,CHIP	100 5% 1/10W	R3305	1-216-017-91	RES,CHIP	47 5% 1/10W
R1328	1-216-033-00	RES,CHIP	220 5% 1/10W	R3306	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1329	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	R3307	1-216-025-91	RES,CHIP	100 5% 1/10W
R1330	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3308	1-216-037-00	RES,CHIP	330 5% 1/10W
R1331	1-216-045-00	RES,CHIP	680 5% 1/10W	R3309	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1332	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3310	1-216-025-91	RES,CHIP	100 5% 1/10W
R1333	1-216-025-91	RES,CHIP	100 5% 1/10W	R3311	1-216-295-91	SHORT	0
R1334	1-216-025-91	RES,CHIP	100 5% 1/10W	R3312	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1335	1-216-041-00	RES,CHIP	470 5% 1/10W	R3313	1-216-025-91	RES,CHIP	100 5% 1/10W
R1336	1-216-073-00	RES,CHIP	10K 5% 1/10W	R3314	1-216-017-91	RES,CHIP	47 5% 1/10W
R1337	1-216-041-00	RES,CHIP	470 5% 1/10W	R3315	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1338	1-216-041-00	RES,CHIP	470 5% 1/10W	R3316	1-216-025-91	RES,CHIP	100 5% 1/10W
R1339	1-216-079-00	RES,CHIP	18K 5% 1/10W	R3317	1-216-037-00	RES,CHIP	330 5% 1/10W
R1340	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3318	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1341	1-216-041-00	RES,CHIP	470 5% 1/10W	R3319	1-216-025-91	RES,CHIP	100 5% 1/10W
R1342	1-216-041-00	RES,CHIP	470 5% 1/10W	R3320	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1343	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3321	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1344	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R3323	1-216-025-91	RES,CHIP	100 5% 1/10W
R1345	1-216-041-00	RES,CHIP	470 5% 1/10W	R3324	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1347	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3325	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1348	1-216-025-91	RES,CHIP	100 5% 1/10W	R3326	1-216-025-91	RES,CHIP	100 5% 1/10W
R1349	1-216-075-00	RES,CHIP	12K 5% 1/10W	R3327	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R1351	1-216-081-00	RES,CHIP	22K 5% 1/10W	R3328	1-216-025-91	RES,CHIP	100 5% 1/10W
R1352	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3329	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1353	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3330	1-216-025-91	RES,CHIP	100 5% 1/10W
R1354	1-216-033-00	RES,CHIP	220 5% 1/10W	R3331	1-216-025-91	RES,CHIP	100 5% 1/10W
R1356	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3332	1-216-041-00	RES,CHIP	470 5% 1/10W
R1357	1-216-025-91	RES,CHIP	100 5% 1/10W	R3333	1-216-025-91	RES,CHIP	100 5% 1/10W
R1358	1-216-041-00	RES,CHIP	470 5% 1/10W	R3334	1-216-025-91	RES,CHIP	100 5% 1/10W
R1359	1-216-041-00	RES,CHIP	470 5% 1/10W	R3335	1-216-022-00	RES,CHIP	75 5% 1/10W
R1360	1-216-041-00	RES,CHIP	470 5% 1/10W	R3336	1-216-025-91	RES,CHIP	100 5% 1/10W
R1361	1-216-041-00	RES,CHIP	470 5% 1/10W	R3337	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1362	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3338	1-216-025-91	RES,CHIP	100 5% 1/10W
R1363	1-216-041-00	RES,CHIP	470 5% 1/10W	R3339	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1364	1-216-025-91	RES,CHIP	100 5% 1/10W	R3341	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1365	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3342	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1366	1-216-041-00	RES,CHIP	470 5% 1/10W	R3343	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1367	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3344	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1368	1-216-041-00	RES,CHIP	470 5% 1/10W	R3345	1-216-025-91	RES,CHIP	100 5% 1/10W
R1369	1-216-049-91	RES,CHIP	1K 5% 1/10W	R3346	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1370	1-216-041-00	RES,CHIP	470 5% 1/10W	R3347	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R1373	1-216-041-00	RES,CHIP	470 5% 1/10W	R3348	1-216-048-00	RES,CHIP	910 5% 1/10W
R1374	1-216-045-00	RES,CHIP	680 5% 1/10W	R3349	1-216-073-00	RES,CHIP	10K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3350	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R5223	1-216-025-91	RES,CHIP	100 5% 1/10W
R3351	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R5224	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3352	1-216-089-91	RES,CHIP	47K 5% 1/10W	R5225	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3353	1-216-025-91	RES,CHIP	100 5% 1/10W	R5226	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3354	1-216-025-91	RES,CHIP	100 5% 1/10W	R5227	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3355	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5228	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3356	1-216-113-00	RES,CHIP	470K 5% 1/10W	R5300	1-216-295-91	SHORT	0
R3357	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R5301	1-216-031-00	RES,CHIP	180 5% 1/10W
R3358	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R5302	1-216-031-00	RES,CHIP	180 5% 1/10W
R3359	1-216-025-91	RES,CHIP	100 5% 1/10W	R5303	1-216-041-00	RES,CHIP	470 5% 1/10W
R3360	1-216-295-91	SHORT	0	R5304	1-216-295-91	SHORT	0
R3361	1-216-025-91	RES,CHIP	100 5% 1/10W	R5306	1-216-013-00	RES,CHIP	33 5% 1/10W
R3362	1-216-025-91	RES,CHIP	100 5% 1/10W	R5307	1-216-033-00	RES,CHIP	220 5% 1/10W
R3363	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5308	1-216-031-00	RES,CHIP	180 5% 1/10W
R3364	1-216-113-00	RES,CHIP	470K 5% 1/10W	R5309	1-216-041-00	RES,CHIP	470 5% 1/10W
R3365	1-216-113-00	RES,CHIP	470K 5% 1/10W	R5310	1-216-689-11	RES,CHIP	39K 5% 1/10W
R3366	1-216-295-91	SHORT	0	R5311	1-216-689-11	RES,CHIP	39K 5% 1/10W
R3367	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R5312	1-216-689-11	RES,CHIP	39K 5% 1/10W
R3368	1-216-093-00	RES,CHIP	68K 5% 1/10W	R5313	1-216-689-11	RES,CHIP	39K 5% 1/10W
R3369	1-216-105-91	RES,CHIP	220K 5% 1/10W	R5314	1-216-689-11	RES,CHIP	39K 5% 1/10W
R3370	1-216-105-91	RES,CHIP	220K 5% 1/10W	R5315	1-216-689-11	RES,CHIP	39K 5% 1/10W
R3371	1-216-022-00	RES,CHIP	75 5% 1/10W	R5316	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3372	1-216-295-91	SHORT	0	R5317	1-216-041-00	RES,CHIP	470 5% 1/10W
R3373	1-216-295-91	SHORT	0	R5318	1-216-041-00	RES,CHIP	470 5% 1/10W
R3374	1-216-295-91	SHORT	0	R5319	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3375	1-216-089-91	RES,CHIP	47K 5% 1/10W	R5320	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3377	1-216-022-00	RES,CHIP	75 5% 1/10W	R5321	1-216-025-91	RES,CHIP	100 5% 1/10W
R3378	1-216-048-00	RES,CHIP	910 5% 1/10W	R5322	1-216-025-91	RES,CHIP	100 5% 1/10W
R3379	1-216-105-91	RES,CHIP	220K 5% 1/10W	R5323	1-216-025-91	RES,CHIP	100 5% 1/10W
R3380	1-216-105-91	RES,CHIP	220K 5% 1/10W	R5324	1-216-079-00	RES,CHIP	18K 5% 1/10W
R3381	1-216-022-00	RES,CHIP	75 5% 1/10W	R5325	1-216-075-00	RES,CHIP	12K 5% 1/10W
R3382	1-216-025-91	RES,CHIP	100 5% 1/10W	R5326	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3383	1-216-025-91	RES,CHIP	100 5% 1/10W	R5327	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3384	1-216-025-91	RES,CHIP	100 5% 1/10W	R5328	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3385	1-216-105-91	RES,CHIP	220K 5% 1/10W	R5329	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3386	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R5330	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3387	1-216-089-91	RES,CHIP	47K 5% 1/10W	R5331	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3388	1-216-089-91	RES,CHIP	47K 5% 1/10W	R5332	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3389	1-216-022-00	RES,CHIP	75 5% 1/10W	R5333	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3390	1-216-025-91	RES,CHIP	100 5% 1/10W	R5334	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3391	1-216-025-91	RES,CHIP	100 5% 1/10W	R5335	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3392	1-216-021-00	RES,CHIP	68 5% 1/10W	R5336	1-216-089-91	RES,CHIP	47K 5% 1/10W
R3393	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R5337	1-216-089-91	RES,CHIP	47K 5% 1/10W
R3394	1-216-031-00	RES,CHIP	180 5% 1/10W	R5338	1-216-041-00	RES,CHIP	470 5% 1/10W
R3395	1-216-033-00	RES,CHIP	220 5% 1/10W	R5339	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3396	1-216-041-00	RES,CHIP	470 5% 1/10W	R5350	1-216-045-00	RES,CHIP	680 5% 1/10W
R3397	1-216-041-00	RES,CHIP	470 5% 1/10W	R5353	1-216-025-91	RES,CHIP	100 5% 1/10W
R3398	1-216-025-91	RES,CHIP	100 5% 1/10W	R5354	1-216-025-91	RES,CHIP	100 5% 1/10W
R3399	1-216-025-91	RES,CHIP	100 5% 1/10W	R5355	1-216-025-91	RES,CHIP	100 5% 1/10W
R5201	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R5356	1-216-025-91	RES,CHIP	100 5% 1/10W
R5202	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R5357	1-216-025-91	RES,CHIP	100 5% 1/10W
R5203	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R5358	1-216-025-91	RES,CHIP	100 5% 1/10W
R5204	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R5359	1-216-041-00	RES,CHIP	470 5% 1/10W
R5205	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R5360	1-216-031-00	RES,CHIP	180 5% 1/10W
R5206	1-216-129-00	RES,CHIP	2.2M 5% 1/10W	R5361	1-216-097-91	RES,CHIP	100K 5% 1/10W
R5207	1-216-035-00	RES,CHIP	270 5% 1/10W	R5362	1-216-097-91	RES,CHIP	100K 5% 1/10W
R5208	1-216-035-00	RES,CHIP	270 5% 1/10W	R5364	1-216-097-91	RES,CHIP	100K 5% 1/10W
R5210	1-216-033-00	RES,CHIP	220 5% 1/10W	R5365	1-216-041-00	RES,CHIP	470 5% 1/10W
R5211	1-216-033-00	RES,CHIP	220 5% 1/10W	R5366	1-216-041-00	RES,CHIP	470 5% 1/10W
R5212	1-216-033-00	RES,CHIP	220 5% 1/10W	R5367	1-216-041-00	RES,CHIP	470 5% 1/10W
R5214	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R5368	1-216-041-00	RES,CHIP	470 5% 1/10W
R5215	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R5369	1-216-041-00	RES,CHIP	470 5% 1/10W
R5216	1-216-049-91	RES,CHIP	1K 5% 1/10W	R5370	1-216-081-00	RES,CHIP	22K 5% 1/10W
R5217	1-216-049-91	RES,CHIP	1K 5% 1/10W	R5371	1-216-041-00	RES,CHIP	470 5% 1/10W
R5218	1-216-075-00	RES,CHIP	12K 5% 1/10W	R5372	1-216-295-91	SHORT	0
R5219	1-216-075-00	RES,CHIP	12K 5% 1/10W	R5373	1-216-045-00	RES,CHIP	680 5% 1/10W
R5220	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5374	1-216-089-91	RES,CHIP	47K 5% 1/10W
R5221	1-216-073-00	RES,CHIP	10K 5% 1/10W	R5375	1-216-295-91	SHORT	0
R5222	1-216-025-91	RES,CHIP	100 5% 1/10W				



REF. NO.	PART NO.	DESCRIPTION	REMARK
R5376	1-216-025-91	RES,CHIP 100	5%
R5377	1-216-047-91	RES,CHIP 820	5%
R5378	1-216-051-00	RES,CHIP 1.2K	5%
R5379	1-216-097-91	RES,CHIP 100K	5%
R5381	1-216-097-91	RES,CHIP 100K	5%
R5382	1-216-033-00	RES,CHIP 220	5%
R5383	1-216-097-91	RES,CHIP 100K	5%
R5384	1-216-033-00	RES,CHIP 220	5%
R5385	1-216-041-00	RES,CHIP 470	5%
R5386	1-216-295-91	SHORT 0	
R5387	1-216-041-00	RES,CHIP 470	5%
R5388	1-216-033-00	RES,CHIP 220	5%
R5389	1-216-041-00	RES,CHIP 470	5%
R5390	1-216-035-00	RES,CHIP 270	5%
R5391	1-216-295-91	SHORT 0	
R5392	1-216-041-00	RES,CHIP 470	5%
R5393	1-216-041-00	RES,CHIP 470	5%
R5394	1-216-029-00	RES,CHIP 150	5%
R5395	1-216-049-91	RES,CHIP 1K	5%
R5396	1-216-041-00	RES,CHIP 470	5%
R5397	1-216-041-00	RES,CHIP 470	5%
R5398	1-216-029-00	RES,CHIP 150	5%
R5399	1-216-049-91	RES,CHIP 1K	5%
R7300	1-216-295-91	SHORT 0	
R7301	1-216-295-91	SHORT 0	
R7305	1-216-045-00	RES,CHIP 680	5%
<VARIABLE RESISTOR>			
RV5301	1-241-758-11	RES, ADJ, CARBON 100	
<TUNER>			
TU3301	8-598-450-00	TUNER, FSS BTF-LG434	
<CRYSTAL>			
X1301	1-781-134-21	VIBRATOR, CRYSTAL	
X1302	1-781-132-21	VIBRATOR, CRYSTAL	
X5201	1-579-834-11	VIBRATOR, CRYSTAL	

* A-1195-148-A P BOARD, COMPLETE			

<CAPACITOR>			
C9401	1-163-113-00	CERAMIC CHIP 68PF	5%
C9402	1-163-038-91	CERAMIC CHIP 0.1MF	
C9404	1-164-346-11	CERAMIC CHIP 1MF	
C9405	1-163-021-91	CERAMIC CHIP 0.01MF	10%
C9406	1-163-113-00	CERAMIC CHIP 68PF	5%
C9408	1-115-419-11	CERAMIC CHIP 3300PF	5%
C9409	1-115-185-11	CERAMIC CHIP 0.033MF	10%
C9410	1-126-206-11	ELECT CHIP 100MF	20%
C9412	1-162-569-11	CERAMIC CHIP 100PF	2%
C9413	1-162-569-11	CERAMIC CHIP 100PF	2%
C9414	1-162-569-11	CERAMIC CHIP 100PF	2%
C9415	1-162-569-11	CERAMIC CHIP 100PF	2%
C9420	1-163-263-11	CERAMIC CHIP 330PF	5%
C9501	1-126-396-11	ELECT CHIP 47MF	20%
C9502	1-163-038-91	CERAMIC CHIP 0.1MF	
C9503	1-126-396-11	ELECT CHIP 47MF	20%
C9504	1-163-038-91	CERAMIC CHIP 0.1MF	
C9505	1-163-038-91	CERAMIC CHIP 0.1MF	
C9507	1-126-396-11	ELECT CHIP 47MF	20%
C9508	1-163-038-91	CERAMIC CHIP 0.1MF	

REF. NO.	PART NO.	DESCRIPTION	REMARK
C9509	1-126-204-11	ELECT CHIP 47MF	20%
C9510	1-107-823-11	CERAMIC CHIP 0.47MF	10%
C9511	1-104-760-11	CERAMIC CHIP 0.047MF	10%
C9512	1-126-204-11	ELECT CHIP 47MF	20%
C9513	1-163-038-91	CERAMIC CHIP 0.1MF	
C9514	1-163-038-91	CERAMIC CHIP 0.1MF	
C9515	1-104-601-11	ELECT CHIP 10MF	20%
C9516	1-104-601-11	ELECT CHIP 10MF	20%
C9517	1-104-601-11	ELECT CHIP 10MF	20%
C9518	1-163-038-91	CERAMIC CHIP 0.1MF	
C9519	1-163-038-91	CERAMIC CHIP 0.1MF	
C9520	1-163-038-91	CERAMIC CHIP 0.1MF	
C9522	1-163-017-00	CERAMIC CHIP 0.0047MF	10%
C9523	1-164-005-11	CERAMIC CHIP 0.47MF	
C9524	1-164-005-11	CERAMIC CHIP 0.47MF	
C9525	1-163-038-91	CERAMIC CHIP 0.1MF	
C9526	1-163-038-91	CERAMIC CHIP 0.1MF	
C9527	1-104-601-11	ELECT CHIP 10MF	20%
C9528	1-104-601-11	ELECT CHIP 10MF	20%
C9529	1-104-601-11	ELECT CHIP 10MF	20%
C9530	1-163-038-91	CERAMIC CHIP 0.1MF	
C9531	1-163-038-91	CERAMIC CHIP 0.1MF	
C9532	1-163-038-91	CERAMIC CHIP 0.1MF	
C9533	1-163-038-91	CERAMIC CHIP 0.1MF	
C9534	1-163-038-91	CERAMIC CHIP 0.1MF	
C9535	1-126-396-11	ELECT CHIP 47MF	20%
C9536	1-126-396-11	ELECT CHIP 47MF	20%
C9537	1-107-823-11	CERAMIC CHIP 0.47MF	10%
C9538	1-104-760-11	CERAMIC CHIP 0.047MF	10%
C9539	1-163-038-91	CERAMIC CHIP 0.1MF	
C9540	1-163-038-91	CERAMIC CHIP 0.1MF	
C9541	1-163-038-91	CERAMIC CHIP 0.1MF	
C9542	1-163-038-91	CERAMIC CHIP 0.1MF	
C9543	1-164-489-11	CERAMIC CHIP 0.22MF	10%
C9544	1-163-038-91	CERAMIC CHIP 0.1MF	
C9545	1-163-038-91	CERAMIC CHIP 0.1MF	
C9546	1-163-038-91	CERAMIC CHIP 0.1MF	
C9547	1-163-038-91	CERAMIC CHIP 0.1MF	
C9548	1-163-038-91	CERAMIC CHIP 0.1MF	
C9549	1-163-038-91	CERAMIC CHIP 0.1MF	
C9550	1-126-206-11	ELECT CHIP 100MF	20%
C9552	1-163-038-91	CERAMIC CHIP 0.1MF	
C9553	1-163-038-91	CERAMIC CHIP 0.1MF	
C9554	1-126-204-11	ELECT CHIP 47MF	20%
C9555	1-126-204-11	ELECT CHIP 47MF	20%
C9556	1-104-760-11	CERAMIC CHIP 0.047MF	10%
C9558	1-126-204-11	ELECT CHIP 47MF	20%
C9560	1-163-038-91	CERAMIC CHIP 0.1MF	
C9561	1-163-038-91	CERAMIC CHIP 0.1MF	
C9562	1-163-038-91	CERAMIC CHIP 0.1MF	
C9563	1-163-038-91	CERAMIC CHIP 0.1MF	
C9564	1-163-038-91	CERAMIC CHIP 0.1MF	
C9565	1-163-038-91	CERAMIC CHIP 0.1MF	
C9566	1-163-038-91	CERAMIC CHIP 0.1MF	
C9567	1-126-204-11	ELECT CHIP 47MF	20%
C9568	1-163-038-91	CERAMIC CHIP 0.1MF	
C9569	1-163-275-11	CERAMIC CHIP 0.001MF	5%
C9570	1-163-275-11	CERAMIC CHIP 0.001MF	5%
C9574	1-126-206-11	ELECT CHIP 100MF	20%
C9576	1-163-143-00	CERAMIC CHIP 0.0012MF	5%
C9577	1-163-021-91	CERAMIC CHIP 0.01MF	10%
C9578	1-163-021-91	CERAMIC CHIP 0.01MF	10%
C9579	1-163-021-91	CERAMIC CHIP 0.01MF	10%
C9580	1-163-243-11	CERAMIC CHIP 47PF	5%
C9581	1-164-346-11	CERAMIC CHIP 1MF	
C9582	1-163-251-11	CERAMIC CHIP 100PF	5%
C9589	1-163-251-11	CERAMIC CHIP 100PF	5%
C9590	1-163-251-11	CERAMIC CHIP 100PF	5%
C9591	1-126-206-11	ELECT CHIP 100MF	20%

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C9605	1-126-206-11	ELECT CHIP 100MF 20%	6.3V	IC9531	8-759-485-79	IC TC7SET08FU(TE85L)	
C9623	1-164-505-11	CERAMIC CHIP 2.2MF	16V	IC9532	8-759-485-79	IC TC7SET08FU(TE85L)	
C9626	1-163-038-91	CERAMIC CHIP 0.1MF	25V			<CHIP CONDUCTOR>	
C9629	1-124-779-00	ELECT CHIP 10MF 20%	16V				
C9801	1-126-204-11	ELECT CHIP 47MF 20%	16V	JR9401	1-216-295-91	SHORT 0	
C9802	1-163-038-91	CERAMIC CHIP 0.1MF	25V			<COIL>	
C9803	1-126-204-11	ELECT CHIP 47MF 20%	16V				
C9804	1-163-038-91	CERAMIC CHIP 0.1MF	25V				
C9846	1-163-121-00	CERAMIC CHIP 150PF 5%	50V				
C9847	1-163-121-00	CERAMIC CHIP 150PF 5%	50V				
C9849	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V	L9401	1-414-757-11	INDUCTOR 100UH	
C9850	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V	L9402	1-414-757-11	INDUCTOR 100UH	
C9858	1-163-038-91	CERAMIC CHIP 0.1MF	25V	L9501	1-414-754-11	INDUCTOR 10UH	
C9859	1-126-206-11	ELECT CHIP 100MF 20%	6.3V	L9502	1-414-757-11	INDUCTOR 100UH	
C9860	1-163-038-91	CERAMIC CHIP 0.1MF	25V	L9503	1-414-757-11	INDUCTOR 100UH	
C9883	1-163-038-91	CERAMIC CHIP 0.1MF	25V	L9504	1-414-754-11	INDUCTOR 10UH	
C9884	1-163-038-91	CERAMIC CHIP 0.1MF	25V	L9505	1-414-757-11	INDUCTOR 100UH	
C9885	1-126-396-11	ELECT CHIP 47MF 20%	16V	L9506	1-414-757-11	INDUCTOR 100UH	
C9886	1-126-204-11	ELECT CHIP 47MF 20%	16V	L9507	1-414-754-11	INDUCTOR 10UH	
C9889	1-126-396-11	ELECT CHIP 47MF 20%	16V	L9508	1-412-006-31	INDUCTOR CHIP 10UH	
C9892	1-163-233-11	CERAMIC CHIP 18PF 5%	50V	L9509	1-414-757-11	INDUCTOR 100UH	
C9893	1-163-231-11	CERAMIC CHIP 15PF 5%	50V	L9510	1-414-757-11	INDUCTOR 100UH	
C9894	1-126-204-11	ELECT CHIP 47MF 20%	16V	L9511	1-414-754-11	INDUCTOR 10UH	
		<CONNECTOR>		L9512	1-414-754-11	INDUCTOR 10UH	
CN9501	1-573-299-21	CONNECTOR, BOARD TO BOARD 10P		L9513	1-412-006-31	INDUCTOR CHIP 10UH	
CN9502	1-764-811-11	CONNECTOR, BOARD TO BOARD 10P		L9514	1-412-006-31	INDUCTOR CHIP 10UH	
CN9503	1-764-813-11	CONNECTOR, BOARD TO BOARD 12P		L9515	1-414-754-11	INDUCTOR 10UH	
		<DIODE>		L9523	1-414-754-11	INDUCTOR 10UH	
D9504	8-719-025-33	DIODE 02CZ6.2-TE85L		L9531	1-414-754-11	INDUCTOR 10UH	
D9505	8-719-025-33	DIODE 02CZ6.2-TE85L		L9538	1-414-754-11	INDUCTOR 10UH	
D9506	8-719-404-49	DIODE MA111		L9539	1-414-754-11	INDUCTOR 10UH	
		<FERRITE BEAD>		L9544	1-414-754-11	INDUCTOR 10UH	
FB9501	1-414-233-22	INDUCTOR CHIP 0UH		L9545	1-414-752-11	INDUCTOR 2.2UH	
FB9502	1-414-233-22	INDUCTOR CHIP 0UH		L9605	1-414-757-11	INDUCTOR 100UH	
		<FILTER>				<TRANSISTOR>	
FL9501	1-233-505-21	FILTER, LOW PASS		Q9401	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL9502	1-233-504-21	FILTER, LOW PASS		Q9402	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL9503	1-233-504-21	FILTER, LOW PASS		Q9403	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL9504	1-233-504-21	FILTER, LOW PASS		Q9404	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL9505	1-233-504-21	FILTER, LOW PASS		Q9405	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL9506	1-233-505-21	FILTER, LOW PASS		Q9406	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL9604	1-233-945-21	FILTER, LOW PASS		Q9407	8-729-230-49	TRANSISTOR 2SC2712-YG	
FL9607	1-233-944-21	FILTER, LOW PASS		Q9408	1-801-806-11	TRANSISTOR DTC144EKA-T146	
FL9608	1-233-944-21	FILTER, LOW PASS		Q9410	8-729-216-22	TRANSISTOR 2SA1162-G	
		<IC>		Q9411	8-729-216-22	TRANSISTOR 2SA1162-G	
IC9401	8-759-907-81	IC SN74LS221NS		Q9501	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC9501	8-759-467-22	IC MSM548331TS-K		Q9502	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC9502	8-759-467-22	IC MSM548331TS-K		Q9505	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC9503	8-759-295-09	IC TLC2932IPW		Q9517	8-729-216-22	TRANSISTOR 2SA1162-G	
IC9504	8-759-295-09	IC TLC2932IPW		Q9519	8-729-216-22	TRANSISTOR 2SA1162-G	
IC9505	8-759-295-09	IC TLC2932IPW		Q9520	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC9506	8-752-392-55	IC CXD2079Q		Q9521	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC9509	8-759-030-52	IC MC74F163AM		Q9522	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC9510	8-759-030-52	IC MC74F163AM		Q9523	8-729-216-22	TRANSISTOR 2SA1162-G	
IC9511	8-759-930-57	IC SN74LS164NS		Q9530	8-729-216-22	TRANSISTOR 2SA1162-G	
IC9525	8-759-352-91	IC PST9143NL		Q9533	8-729-216-22	TRANSISTOR 2SA1162-G	
IC9526	8-759-527-74	IC M24C02-MN6T		Q9540	8-729-216-22	TRANSISTOR 2SA1162-G	
IC9527	8-752-897-65	IC CXP86332-008Q		Q9552	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC9530	8-759-485-79	IC TC7SET08FU(TE85L)		Q9553	8-729-230-49	TRANSISTOR 2SC2712-YG	
				Q9554	8-729-230-49	TRANSISTOR 2SC2712-YG	
				Q9558	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q9562	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q9563	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q9568	8-729-230-49	TRANSISTOR 2SC2712-YG	
						<RESISTOR>	
				R9401	1-216-041-00	RES.CHIP 470 5% 1/10W	

P

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R9402	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R9513	1-216-073-00	RES,CHIP	10K 5% 1/10W
R9403	1-216-091-00	RES,CHIP	56K 5% 1/10W	R9514	1-216-073-00	RES,CHIP	10K 5% 1/10W
R9404	1-216-081-00	RES,CHIP	22K 5% 1/10W	R9515	1-216-033-00	RES,CHIP	220 5% 1/10W
R9405	1-216-079-00	RES,CHIP	18K 5% 1/10W	R9517	1-216-295-91	SHORT	0
				R9518	1-216-085-00	RES,CHIP	33K 5% 1/10W
R9407	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9519	1-216-295-91	SHORT	0
R9408	1-216-073-00	RES,CHIP	10K 5% 1/10W	R9520	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R9409	1-216-041-00	RES,CHIP	470 5% 1/10W	R9521	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R9410	1-216-091-00	RES,CHIP	56K 5% 1/10W	R9522	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R9411	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R9523	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R9412	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9524	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R9416	1-216-073-00	RES,CHIP	10K 5% 1/10W	R9525	1-216-085-00	RES,CHIP	33K 5% 1/10W
R9417	1-216-079-00	RES,CHIP	18K 5% 1/10W	R9526	1-216-295-91	SHORT	0
R9418	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9528	1-216-295-91	SHORT	0
R9419	1-216-073-00	RES,CHIP	10K 5% 1/10W	R9529	1-216-041-00	RES,CHIP	470 5% 1/10W
R9420	1-216-073-00	RES,CHIP	10K 5% 1/10W	R9530	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R9421	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9531	1-216-117-00	RES,CHIP	680K 5% 1/10W
R9422	1-216-025-91	RES,CHIP	100 5% 1/10W	R9532	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R9424	1-216-025-91	RES,CHIP	100 5% 1/10W	R9533	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W
R9427	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9534	1-208-774-11	RES,CHIP	470 0.50% 1/10W
R9428	1-216-025-91	RES,CHIP	100 5% 1/10W	R9535	1-208-770-11	RES,CHIP	330 0.50% 1/10W
R9429	1-208-800-11	RES,CHIP	5.6K 0.50% 1/10W	R9536	1-208-770-11	RES,CHIP	330 0.50% 1/10W
R9430	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R9537	1-208-770-11	RES,CHIP	330 0.50% 1/10W
R9431	1-216-295-91	SHORT	0	R9538	1-208-782-11	RES,CHIP	1K 0.50% 1/10W
R9432	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R9539	1-216-025-91	RES,CHIP	100 5% 1/10W
R9433	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R9540	1-216-085-00	RES,CHIP	33K 5% 1/10W
R9435	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R9541	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R9436	1-216-025-91	RES,CHIP	100 5% 1/10W	R9542	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R9437	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R9543	1-216-041-00	RES,CHIP	470 5% 1/10W
R9438	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R9544	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R9439	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R9545	1-216-295-91	SHORT	0
R9440	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R9546	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R9441	1-216-025-91	RES,CHIP	100 5% 1/10W	R9547	1-216-041-00	RES,CHIP	470 5% 1/10W
R9442	1-208-776-11	RES,CHIP	560 0.50% 1/10W	R9548	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R9445	1-216-079-00	RES,CHIP	18K 5% 1/10W	R9549	1-216-117-00	RES,CHIP	680K 5% 1/10W
R9446	1-216-083-00	RES,CHIP	27K 5% 1/10W	R9551	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R9447	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W	R9553	1-208-754-11	RES,CHIP	68 0.50% 1/10W
R9448	1-216-079-00	RES,CHIP	18K 5% 1/10W	R9554	1-216-295-91	SHORT	0
R9449	1-216-083-00	RES,CHIP	27K 5% 1/10W	R9555	1-216-037-00	RES,CHIP	330 5% 1/10W
R9450	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R9556	1-216-033-00	RES,CHIP	220 5% 1/10W
R9451	1-216-025-91	RES,CHIP	100 5% 1/10W	R9558	1-216-117-00	RES,CHIP	680K 5% 1/10W
R9452	1-216-025-91	RES,CHIP	100 5% 1/10W	R9559	1-216-295-91	SHORT	0
R9453	1-216-295-91	SHORT	0	R9560	1-216-049-91	RES,CHIP	1K 5% 1/10W
R9455	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9561	1-216-025-91	RES,CHIP	100 5% 1/10W
R9456	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9562	1-216-025-91	RES,CHIP	100 5% 1/10W
R9457	1-216-025-91	RES,CHIP	100 5% 1/10W	R9563	1-216-025-91	RES,CHIP	100 5% 1/10W
R9458	1-216-025-91	RES,CHIP	100 5% 1/10W	R9564	1-216-025-91	RES,CHIP	100 5% 1/10W
R9460	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9566	1-216-295-91	SHORT	0
R9483	1-208-770-11	RES,CHIP	330 0.50% 1/10W	R9567	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W
R9484	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9568	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W
R9485	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9569	1-216-295-91	SHORT	0
R9486	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9570	1-216-295-91	SHORT	0
R9487	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9571	1-216-295-91	SHORT	0
R9488	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9572	1-216-025-91	RES,CHIP	100 5% 1/10W
R9491	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9573	1-216-073-00	RES,CHIP	10K 5% 1/10W
R9492	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9574	1-216-073-00	RES,CHIP	10K 5% 1/10W
R9493	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9575	1-216-073-00	RES,CHIP	10K 5% 1/10W
R9494	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9579	1-216-025-91	RES,CHIP	100 5% 1/10W
R9495	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9580	1-216-025-91	RES,CHIP	100 5% 1/10W
R9496	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9581	1-216-033-00	RES,CHIP	220 5% 1/10W
R9497	1-208-754-11	RES,CHIP	68 0.50% 1/10W	R9582	1-216-045-00	RES,CHIP	680 5% 1/10W
R9498	1-208-770-11	RES,CHIP	330 0.50% 1/10W	R9584	1-216-295-91	SHORT	0
R9501	1-216-061-00	RES,CHIP	3.3K 5% 1/10W	R9591	1-216-049-91	RES,CHIP	1K 5% 1/10W
R9502	1-216-051-00	RES,CHIP	1.2K 5% 1/10W	R9592	1-216-295-91	SHORT	0
R9503	1-216-117-00	RES,CHIP	680K 5% 1/10W	R9593	1-216-295-91	SHORT	0
R9504	1-216-041-00	RES,CHIP	470 5% 1/10W	R9594	1-216-295-91	SHORT	0
R9505	1-216-295-91	SHORT	0	R9595	1-216-295-91	SHORT	0
R9506	1-216-049-91	RES,CHIP	1K 5% 1/10W	R9596	1-216-049-91	RES,CHIP	1K 5% 1/10W
R9510	1-216-117-00	RES,CHIP	680K 5% 1/10W	R9597	1-216-295-91	SHORT	0
R9512	1-216-037-00	RES,CHIP	330 5% 1/10W				

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R9598	1-216-295-91	SHORT 0	
R9599	1-216-295-91	SHORT 0	
R9647	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R9648	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R9727	1-208-794-11	RES,CHIP 3.3K 0.50%	1/10W
R9728	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9729	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R9733	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R9734	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R9735	1-208-762-11	RES,CHIP 150 0.50%	1/10W
R9742	1-208-762-11	RES,CHIP 150 0.50%	1/10W
R9743	1-208-762-11	RES,CHIP 150 0.50%	1/10W
R9744	1-216-655-11	RES,CHIP 1.5K 0.50%	1/10W
R9747	1-216-655-11	RES,CHIP 1.5K 0.50%	1/10W
R9752	1-216-655-11	RES,CHIP 1.5K 0.50%	1/10W
R9753	1-216-025-91	RES,CHIP 100 5%	1/10W
R9772	1-216-025-91	RES,CHIP 100 5%	1/10W
R9773	1-216-295-91	SHORT 0	
R9774	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R9782	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9786	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9801	1-216-295-91	SHORT 0	
R9802	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9803	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9804	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R9805	1-216-073-00	RES,CHIP 10K 5%	1/10W
R9806	1-216-073-00	RES,CHIP 10K 5%	1/10W
R9807	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9808	1-208-774-11	RES,CHIP 470 0.50%	1/10W
R9809	1-208-766-11	RES,CHIP 220 0.50%	1/10W
R9810	1-208-800-11	RES,CHIP 5.6K 0.50%	1/10W
R9811	1-216-065-91	RES,CHIP 4.7K 5%	1/10W
R9812	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R9813	1-216-057-00	RES,CHIP 2.2K 5%	1/10W
R9814	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9815	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9816	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9817	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9818	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9819	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9820	1-216-025-91	RES,CHIP 100 5%	1/10W
R9823	1-216-025-91	RES,CHIP 100 5%	1/10W
R9827	1-208-773-11	RES,CHIP 430 0.50%	1/10W
R9828	1-208-800-11	RES,CHIP 5.6K 0.50%	1/10W
R9829	1-216-049-91	RES,CHIP 1K 5%	1/10W
R9840	1-216-295-91	SHORT 0	
R9842	1-208-774-11	RES,CHIP 470 0.50%	1/10W
R9843	1-208-766-11	RES,CHIP 220 0.50%	1/10W
R9849	1-208-800-11	RES,CHIP 5.6K 0.50%	1/10W
R9850	1-208-800-11	RES,CHIP 5.6K 0.50%	1/10W
R9851	1-208-800-11	RES,CHIP 5.6K 0.50%	1/10W
R9852	1-208-773-11	RES,CHIP 430 0.50%	1/10W
R9853	1-216-053-00	RES,CHIP 1.5K 5%	1/10W
R9854	1-216-053-00	RES,CHIP 1.5K 5%	1/10W
R9855	1-216-053-00	RES,CHIP 1.5K 5%	1/10W
R9864	1-208-776-11	RES,CHIP 560 0.50%	1/10W
<CRYSTAL>			
X9504	1-781-174-21	VIBRATOR, CERAMIC	
X9508	1-767-262-31	VIBRATOR, CRYSTAL	

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1241-340-A F BOARD, COMPLETE *****			
* 4-374-846-01 COVER, CAPACITOR, CAP TYPE <CAPACITOR>			
C654	Δ 1-117-703-11	CERAMIC 0.0047MF	250V
C4601	Δ 1-136-537-11	FILM 0.47MF 20%	250V
C4602	Δ 1-136-537-11	FILM 0.47MF 20%	250V
<CONNECTOR>			
CN4601	* 1-580-843-11	PIN, CONNECTOR (POWER)	
CN4602	* 1-580-843-11	PIN, CONNECTOR (POWER)	
CN4603	1-695-915-11	TAB (CONTACT)	
<FUSE>			
F4601	Δ 1-532-299-11	FUSE, TIME-LAG 5A/250V	
	1-533-223-11	HOLDER, FUSE ; F4601	
<RESISTOR>			
R4601	Δ 1-202-885-91	SOLID 1M 10%	1/2W
<TRANSFORMER>			
T4601	Δ 1-431-536-11	TRANSFORMER, LINE FILTER	
T4602	Δ 1-431-182-11	TRANSFORMER, LINE FILTER	
<VARISTOR>			
VDR461	Δ 1-801-268-51	VARISTOR TNR14V471K660	

* A-1131-391-A B4 BOARD, COMPLETE *****			
<CAPACITOR>			
C8300	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C8301	1-164-505-11	CERAMIC CHIP 2.2MF	16V
C8302	1-164-505-11	CERAMIC CHIP 2.2MF	16V
<CONNECTOR>			
CN8300	1-785-714-11	PIN, CONNECTOR (PC BOARD) 6P	
CN8301	* 1-564-521-11	PLUG, CONNECTOR 6P	
CN8302	1-785-715-11	PIN, CONNECTOR (PC BOARD) 2P	
CN8303	1-785-715-11	PIN, CONNECTOR (PC BOARD) 2P	
<COIL>			
L8300	1-414-185-41	INDUCTOR 22UH	
<TRANSISTOR>			
Q8300	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8301	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8303	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q8304	8-729-216-22	TRANSISTOR 2SA1162-G	
Q8305	8-729-230-49	TRANSISTOR 2SC2712-YG	
<RESISTOR>			
R8301	1-216-057-00	RES,CHIP 2.2K 5%	1/10W



REF. NO.	PART NO.	DESCRIPTION	REMARK		
R8302	1-216-037-00	RES,CHIP	330	5%	1/10W
R8303	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8304	1-216-037-00	RES,CHIP	330	5%	1/10W
R8305	1-216-025-91	RES,CHIP	100	5%	1/10W
R8306	1-216-025-91	RES,CHIP	100	5%	1/10W
R8307	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R8308	1-216-037-00	RES,CHIP	330	5%	1/10W
R8309	1-216-025-91	RES,CHIP	100	5%	1/10W

* A-1298-745-A	A BOARD, COMPLETE (KV-EF34M61) *****				
* A-1298-756-A	A BOARD, COMPLETE (KV-EF34M91) *****				
* A-1298-757-A	A BOARD, COMPLETE (KV-EF34M80) *****				
* A-1298-764-A	A BOARD, COMPLETE (KV-EF34M90(HK) *****				
* A-1298-765-A	A BOARD, COMPLETE (KV-EF34M90(JE)) *****				
* A-1298-766-A	A BOARD, COMPLETE (KV-EF34M31) *****				
1-900-243-55	CONNECTOR ASSY (LEAD)				
4-382-854-11	SCREW (M3X10), P, SW (+)				
4-382-854-21	SCREW (M3X14), P, SW (+)				
<CAPACITOR>					
C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C006	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C007	1-126-933-11	ELECT	100MF	20%	16V
C013	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C014	1-126-967-11	ELECT	47MF	20%	50V
C015	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C019	1-104-665-11	ELECT	100MF	20%	25V
C022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C026	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C027	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C030	1-126-965-11	ELECT	22MF	20%	50V
C031	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C034	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C043	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C104	1-126-933-11	ELECT	100MF	20%	16V
C107	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C108	1-126-933-11	ELECT	100MF	20%	16V
C109	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C112	1-126-933-11	ELECT	100MF	20%	16V
C113	1-126-967-11	ELECT	47MF	20%	50V
C114	1-126-967-11	ELECT	47MF	20%	50V
C115	1-126-967-11	ELECT	47MF	20%	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C116	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C117	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C300	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C301	1-126-935-11	ELECT	470MF	20%	16V
C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C304	1-126-967-11	ELECT	47MF	20%	50V
C305	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C307	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C308	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C309	1-126-957-11	ELECT	0.22MF	20%	50V
C311	1-126-964-11	ELECT	10MF	20%	50V
C312	1-164-346-11	CERAMIC CHIP	1MF		16V
C313	1-164-346-11	CERAMIC CHIP	1MF		16V
C314	1-164-346-11	CERAMIC CHIP	1MF		16V
C315	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C316	1-126-935-11	ELECT	470MF	20%	16V
C317	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C318	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C320	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C322	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C323	1-126-933-11	ELECT	100MF	20%	16V
C324	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C325	1-126-960-11	ELECT	1MF	20%	50V
C326	1-126-964-11	ELECT	10MF	20%	50V
C327	1-126-965-11	ELECT	22MF	20%	50V
C328	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C329	1-126-965-11	ELECT	22MF	20%	50V
C330	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C331	1-126-964-11	ELECT	10MF	20%	50V
C332	1-126-963-11	ELECT	4.7MF	20%	50V
C335	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C336	1-107-725-11	CERAMIC CHIP	0.1MF	10%	16V
C337	1-126-961-11	ELECT	2.2MF	20%	50V
C338	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C341	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C503	1-126-964-11	ELECT	10MF	20%	50V
C504	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C506	1-107-638-11	ELECT	33MF	20%	160V
C507	1-102-244-00	CERAMIC	220PF	10%	500V
C510	1-102-074-00	CERAMIC	0.001MF	10%	50V
C513	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C514	1-106-383-00	MYLAR	0.047MF	10%	200V
C517	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C518	1-126-933-11	ELECT	100MF	20%	16V
C519	1-102-212-00	CERAMIC	820PF	10%	500V
C521	1-104-666-11	ELECT	220MF	20%	25V
C522	1-126-933-11	ELECT	100MF	20%	16V
C523	1-162-318-11	CERAMIC	0.001MF	10%	500V
C524	1-126-967-11	ELECT	47MF	20%	50V
C526	1-130-495-00	MYLAR	0.1MF	5%	50V
C527	1-102-820-00	CERAMIC	330PF	5%	50V
C528	1-162-116-00	CERAMIC	680PF	10%	2KV
C530	1-137-372-11	FILM	0.022MF	5%	50V
C531	1-107-903-11	ELECT	2.2MF	20%	50V
C532	1-128-528-11	ELECT	470MF	20%	25V
C533	1-128-528-11	ELECT	470MF	20%	25V
C536	1-136-165-00	FILM	0.1MF	5%	50V
C537	1-107-911-11	ELECT	220MF	20%	50V
C538	1-136-544-11	FILM	0.023MF	3%	2KV
C539	1-130-118-91	FILM	0.051MF	5%	400V
C540	1-136-171-00	FILM	0.33MF	5%	50V
C543	1-162-116-00	CERAMIC	680PF	10%	2KV
C546	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C549	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C550	1-106-220-00	MYLAR	0.1MF	10%	100V
C551	1-126-960-11	ELECT	1MF	20%	50V

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A

REF. NO.	PART NO.	DESCRIPTION	REMARK
C552	1-162-116-00	CERAMIC 680PF 10%	2KV
C553	1-162-116-00	CERAMIC 680PF 10%	2KV
C554	1-106-361-00	MYLAR 0.0056MF 10%	100V
C556	1-128-528-11	ELECT 470MF 20%	25V
C557	1-126-941-11	ELECT 470MF 20%	25V
C558	1-123-024-21	ELECT 33MF	160V
C560	1-102-228-00	CERAMIC 470PF 10%	500V
C561	1-129-928-00	FILM 0.0027MF 5%	630V
C562	1-102-228-00	CERAMIC 470PF 10%	500V
C563	1-163-021-91	CERAMIC CHIP 0.01MF 10%	50V
C564	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C565	1-107-655-11	ELECT 47MF 20%	250V
C566	1-102-244-00	CERAMIC 220PF 10%	500V
C567	1-109-961-11	FILM 0.75MF 5%	250V
C568	1-102-228-00	CERAMIC 470PF 10%	500V
C570	1-117-674-71	FILM 1.8MF 5%	250V
C571	1-126-959-11	ELECT 0.47MF 20%	50V
C572	1-115-514-11	FILM 0.22MF 5%	250V
C573	1-106-387-00	MYLAR 0.068MF 10%	200V
C574	1-104-709-11	ELECT 4.7MF 0	160V
C576	1-130-495-00	MYLAR 0.1MF 5%	50V
C577	1-115-516-11	FILM 0.33MF 5%	250V
C579	1-102-038-00	CERAMIC 0.001MF	500V
C600	Δ 1-104-705-11	FILM 0.1MF 20%	250V
C601	1-136-601-11	FILM 0.01MF 10%	630V
C603	1-126-967-11	ELECT 47MF 20%	50V
C604	1-163-009-11	CERAMIC CHIP 0.001MF 10%	50V
C605	Δ 1-119-886-51	CERAMIC 470PF 10%	250V
C606	Δ 1-119-886-51	CERAMIC 470PF 10%	250V
C607	Δ 1-161-830-51	CERAMIC 0.0047MF	500V
C608	Δ 1-161-830-51	CERAMIC 0.0047MF	500V
C609	1-126-968-11	ELECT 100MF 20%	50V
C610	1-126-964-11	ELECT 10MF 20%	50V
C611	1-161-830-00	CERAMIC 0.0047MF	500V
C612	1-161-830-00	CERAMIC 0.0047MF	500V
C613	1-125-906-11	ELECT 560MF 20%	450V
C614	1-126-964-11	ELECT 10MF 20%	50V
C615	Δ 1-119-886-51	CERAMIC 470PF 10%	250V
C616	1-130-202-00	FILM 0.022MF 10%	400V
C617	1-107-792-11	CERAMIC 100PF 5%	1KV
C618	1-125-893-11	FILM 680PF 3%	1.5KV
C619	Δ 1-119-886-51	CERAMIC 470PF 10%	250V
C620	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C621	1-102-824-00	CERAMIC 470PF 5%	50V
C622	1-102-119-00	CERAMIC 0.0015MF 10%	50V
C623	1-104-665-11	ELECT 100MF 20%	25V
C624	1-125-772-91	CERAMIC 1500PF 10%	2KV
C625	1-102-002-00	CERAMIC 680PF 10%	500V
C626	1-102-002-00	CERAMIC 680PF 10%	500V
C629	1-126-964-11	ELECT 10MF 20%	50V
C630	1-125-494-11	ELECT (BLOCK) 560MF 20%	160V
C631	1-128-550-11	ELECT 2200MF 20%	50V
C632	1-126-936-11	ELECT 3300MF 20%	16V
C633	1-104-999-11	MYLAR 0.1MF 10%	200V
C634	1-126-934-11	ELECT 220MF 20%	16V
C635	1-104-665-11	ELECT 100MF 20%	10V
C636	1-104-760-11	CERAMIC CHIP 0.047MF 10%	50V
C638	1-161-830-00	CERAMIC 0.0047MF	500V
C641	1-102-002-00	CERAMIC 680PF 10%	500V
C642	1-107-890-11	ELECT 2200MF 20%	25V
C643	1-126-933-11	ELECT 100MF 20%	16V
C644	1-104-331-11	CERAMIC 0.0022MF 10%	1KV
C645	1-137-605-11	FILM 0.01MF 10%	250V
C646	1-107-679-91	ELECT 10MF 20%	450V
C647	1-163-275-11	CERAMIC CHIP 0.001MF 5%	50V
C649	1-126-940-11	ELECT 330MF 20%	25V
C650	1-163-275-11	CERAMIC CHIP 0.001MF 5%	50V
C651	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C652	1-126-965-11	ELECT 22MF 20%	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C653	1-126-967-11	ELECT 47MF 20%	50V
C655	Δ 1-119-886-51	CERAMIC 470PF 10%	250V
C657	1-101-821-00	CERAMIC 0.0022MF	500V
C912	1-107-725-11	CERAMIC CHIP 0.1MF 10%	16V
C913	1-126-933-11	ELECT 100MF 20%	16V
<CONNECTOR>			
CN101	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN102	* 1-779-889-11	CONNECTOR, BOARD TO BOARD 8P	
CN104	1-695-915-11	TAB (CONTACT)	
CN105	* 1-508-784-21	PIN, CONNECTOR (5mm PITCH) 1P	
CN106	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN201	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN202	* 1-785-608-11	PIN, CONNECTOR 4P	
CN301	* 1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (EF34M31/EF34M61/EF34M91)	
CN302	* 1-779-889-11	CONNECTOR, BOARD TO BOARD 8P	
CN303	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN304	* 1-766-955-11	CONNECTOR, BOARD TO BOARD 11P	
CN307	* 1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (EF34M31/EF34M61/EF34M91)	
CN501	* 1-508-784-21	PIN, CONNECTOR (5mm PITCH) 1P	
CN503	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN504	1-695-915-11	TAB (CONTACT)	
CN505	1-508-766-00	PIN, CONNECTOR (5mm PITCH) 4P	
CN508	1-695-915-11	TAB (CONTACT)	
CN510	* 1-564-507-11	PLUG, CONNECTOR 4P (except EF34M80)	
CN601	* 1-580-843-12	PIN, CONNECTOR (POWER)	
CN602	* 1-508-786-00	PIN, CONNECTOR (5mm PITCH) 2P	
CN603	* 1-508-784-21	PIN, CONNECTOR (5mm PITCH) 1P	
CN604	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN605	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN607	* 1-508-784-21	PIN, CONNECTOR (5mm PITCH) 1P	
CN904	* 1-564-512-11	PLUG, CONNECTOR 9P	
<DIODE>			
D001	8-719-404-49	DIODE MA111	
D002	8-719-404-49	DIODE MA111	
D003	8-719-404-49	DIODE MA111	
D004	8-719-404-49	DIODE MA111	
D005	8-719-404-49	DIODE MA111	
D006	1-216-295-91	SHORT 0	
D100	8-719-911-19	DIODE ISS119-25	
D300	8-719-404-49	DIODE MA111	
D301	8-719-404-49	DIODE MA111	
D303	8-719-404-49	DIODE MA111	
D304	8-719-404-49	DIODE MA111	
D305	8-719-404-49	DIODE MA111	
D306	8-719-404-49	DIODE MA111	
D307	8-719-404-49	DIODE MA111	
D308	8-719-404-49	DIODE MA111	
D309	8-719-159-10	DIODE RD5.1SB-T2	
D311	8-719-404-49	DIODE MA111	
D312	8-719-404-49	DIODE MA111	
D313	8-719-404-49	DIODE MA111	
D315	8-719-404-49	DIODE MA111	
D316	8-719-158-39	DIODE RD10SB	
D317	8-719-404-49	DIODE MA111	
D504	8-719-302-43	DIODE ELIZ	
D505	8-719-404-49	DIODE MA111	
D506	8-719-911-19	DIODE ISS119-25	
D507	8-719-404-49	DIODE MA111	
D508	8-719-404-49	DIODE MA111	
D509	8-719-158-15	DIODE RD5.6SB	
D510	8-719-404-49	DIODE MA111	
D511	8-719-404-49	DIODE MA111	
D512	8-719-404-49	DIODE MA111	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D513	8-719-908-03	DIODE GP08D				<IC>	
D517	8-719-061-21	DIODE FMQ-G5FMS					
D520	8-719-404-49	DIODE MA111		IC001	8-752-898-91	IC CXP750097-001S (EF34M31/EF34M61/EF34M90)	
D521	8-719-302-43	DIODE EL1Z					
D522	8-719-028-45	DIODE D2L20U		IC001	8-752-898-92	IC CXP750097-002S (EF34M80/EF34M91)	
D523	8-719-302-43	DIODE EL1Z		IC002	8-759-371-21	IC MM1319AFBE	
D525	8-719-911-19	DIODE ISS119-25		IC003	8-759-370-34	IC ST24C08FB6	
D526	8-719-150-92	DIODE RD33EB3T		IC100	8-759-042-02	IC S-80743AL-A7-S	
D527	8-719-908-03	DIODE GP08D					
D528	8-719-908-03	DIODE GP08D		IC301	8-752-088-39	IC CXA2130S	
D529	8-719-028-72	DIODE RGP02-17EL-6433		IC502	8-759-700-07	IC NJM2903M	
D530	8-719-071-39	DIODE FMU-G26S		IC503	8-759-980-58	IC TDA8172	
D531	8-719-404-49	DIODE MA111		IC601	8-749-014-48	IC STR-F6656	
D532	8-719-404-49	DIODE MA111		IC602	8-749-920-61	IC SE-135N	
D600	8-719-911-19	DIODE ISS119-25					
D602	8-719-911-19	DIODE ISS119-25		IC603	8-759-701-59	IC NJM78M09FA	
D603	8-719-150-92	DIODE RD33EB3T		IC604	8-759-231-53	IC TA7805S	
D604	8-719-028-72	DIODE RGP02-17EL-6433				<CHIP CONDUCTOR>	
D605	8-719-510-53	DIODE D4SB60L		JR002	1-216-295-91	SHORT	0
D606	8-719-108-18	THYRISTOR 5P6M		JR003	1-216-295-91	SHORT	0
D607	8-719-404-49	DIODE MA111		JR004	1-216-295-91	SHORT	0
D608	8-719-110-53	DIODE RD20ESB2		JR005	1-216-295-91	SHORT	0
D609	8-719-311-31	DIODE RU-1P		JR006	1-216-295-91	SHORT	0
D610	8-719-043-76	DIODE AK04V0					
D611	8-719-046-74	DIODE AU-01Z-V1		JR007	1-216-295-91	SHORT	0
D612	8-719-071-38	DIODE D5S6M		JR008	1-216-295-91	SHORT	0
D613	8-719-046-74	DIODE AU-01Z-V1		JR009	1-216-295-91	SHORT	0
D614	8-719-046-74	DIODE AU-01Z-V1		JR010	1-216-295-91	SHORT	0
D620	8-719-110-72	DIODE RD30ESB2		JR011	1-216-295-91	SHORT	0
D621	8-719-071-38	DIODE D5S6M					
D622	8-719-071-39	DIODE FMU-G26S		JR012	1-216-295-91	SHORT	0
D623	8-719-158-57	DIODE RD15SB2		JR014	1-216-295-91	SHORT	0
D624	8-719-404-49	DIODE MA111		JR015	1-216-295-91	SHORT	0
D625	8-719-158-39	DIODE RD10SB		JR016	1-216-295-91	SHORT	0
D628	8-719-911-19	DIODE ISS119-25		JR102	1-216-295-91	SHORT	0
D630	8-719-510-37	DIODE D5LC20U					
D631	8-719-068-00	DIODE ERC04-06SE		JR107	1-216-295-91	SHORT	0 (except EF34M80)
D632	8-719-068-00	DIODE ERC04-06SE		JR109	1-216-295-91	SHORT	0 (EF34M80)
D633	8-719-948-45	DIODE ERA22-08		JR301	1-216-295-91	SHORT	0
D634	8-719-404-49	DIODE MA111		JR500	1-216-295-91	SHORT	0
D635	8-719-404-49	DIODE MA111		JR501	1-216-295-91	SHORT	0
D636	8-719-510-02	DIODE D1NS4					
D637	8-719-109-96	DIODE RD6.8ESB1		JR502	1-216-295-91	SHORT	0
D638	8-719-510-48	DIODE D1N20R		JR600	1-216-295-91	SHORT	0
		<CONNECTOR>				<COIL>	
DY1	* 1-580-798-11	CONNECTOR PIN (DY) 6P		L002	1-414-856-11	INDUCTOR 10UH	
		<FERRITE BEAD>		L003	1-414-180-11	INDUCTOR 3.3UH	
FB101	1-216-295-91	SHORT	0	L005	1-414-233-22	INDUCTOR CHIP 0UH	
FB102	1-216-295-91	SHORT	0	L101	1-414-856-11	INDUCTOR 10UH	
FB501	1-410-397-21	FERRITE	1.1UH	L102	1-414-856-11	INDUCTOR 10UH	
FB502	1-410-397-21	FERRITE	1.1UH				
FB600	1-410-396-41	FERRITE	0.45UH	L103	1-414-856-11	INDUCTOR 10UH	
FB601	1-410-397-21	FERRITE	1.1UH	L104	1-414-856-11	INDUCTOR 10UH	
FB602	1-410-397-21	FERRITE	1.1UH	L105	1-414-856-11	INDUCTOR 10UH	
FB603	1-412-911-11	FERRITE	0UH	L301	1-414-189-31	INDUCTOR 100UH	
FB604	1-410-397-21	FERRITE	1.1UH	L302	1-414-185-41	INDUCTOR 22UH	
FB605	1-412-911-11	FERRITE	0UH				
FB606	1-412-911-11	FERRITE	0UH	L501	1-412-525-31	INDUCTOR 10UH	
FB608	1-412-911-11	FERRITE	0UH	L502	1-422-613-11	COIL, AIR CORE	
FB611	1-410-397-21	FERRITE	1.1UH	L503	1-412-525-31	INDUCTOR 10UH	
FB612	1-410-397-21	FERRITE	1.1UH	L504	1-412-525-31	INDUCTOR 10UH	
FB613	1-410-397-21	FERRITE	1.1UH	L505	1-412-525-31	INDUCTOR 10UH	
FB615	1-410-397-21	FERRITE	1.1UH				
				L506	1-412-525-31	INDUCTOR 10UH	
				L507	1-459-111-00	INDUCTOR 10mH	
				L508	1-412-525-31	INDUCTOR 10UH	
				L511	1-406-977-21	INDUCTOR 100UH	
				L512	1-412-549-11	INDUCTOR 1mH	
				L513	1-412-549-11	INDUCTOR 1mH	
				L515	1-459-104-00	COIL, WITH CORE	
				L518	1-408-611-31	INDUCTOR 47UH	
				L601	1-412-527-11	INDUCTOR 15UH	
				L905	1-414-856-11	INDUCTOR 10UH	

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A

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<PHOTO COUPLER>				R034	1-216-049-91	RES,CHIP 1K	5% 1/10W
PH600	Δ 8-749-924-35	PHOTO COUPLER ON3171-R		R035	1-216-025-91	RES,CHIP 100	5% 1/10W
				R036	1-216-025-91	RES,CHIP 100	5% 1/10W
<TRANSISTOR>				R037	1-216-025-91	RES,CHIP 100	5% 1/10W
Q001	8-729-216-22	TRANSISTOR 2SA1162-G		R038	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q002	8-729-230-49	TRANSISTOR 2SC2712-YG		R039	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q003	8-729-027-23	TRANSISTOR DTA114EKA-T146		R040	1-216-025-91	RES,CHIP 100	5% 1/10W
Q004	8-729-900-53	TRANSISTOR DTC114EK		R041	1-216-025-91	RES,CHIP 100	5% 1/10W
Q101	8-729-230-49	TRANSISTOR 2SC2712-YG		R042	1-216-295-91	SHORT 0	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G		R043	1-216-025-91	RES,CHIP 100	5% 1/10W
Q304	8-729-216-22	TRANSISTOR 2SA1162-G		R044	1-216-025-91	RES,CHIP 100	5% 1/10W
Q305	8-729-216-22	TRANSISTOR 2SA1162-G		R045	1-414-233-22	INDUCTOR CHIP 0UH	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G		R046	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q307	8-729-230-49	TRANSISTOR 2SC2712-YG		R047	1-414-233-22	INDUCTOR CHIP 0UH	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		R048	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q311	8-729-230-49	TRANSISTOR 2SC2712-YG		R050	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q312	8-729-216-22	TRANSISTOR 2SA1162-G		R052	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG		R053	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q315	8-729-900-53	TRANSISTOR DTC114EK		R054	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		R055	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R056	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG		R061	1-216-295-91	SHORT 0	
Q505	8-729-931-45	TRANSISTOR IRF614		R062	1-216-041-00	RES,CHIP 470	5% 1/10W
Q506	8-729-140-96	TRANSISTOR 2SD774-34		R063	1-216-041-00	RES,CHIP 470	5% 1/10W
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		R064	1-216-041-00	RES,CHIP 470	5% 1/10W
Q509	8-729-230-49	TRANSISTOR 2SC2712-YG		R065	1-216-041-00	RES,CHIP 470	5% 1/10W
Q511	8-729-016-32	TRANSISTOR 2SC4927-01		R066	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q600	8-729-119-78	TRANSISTOR 2SC2785-HFE		R101	1-216-025-91	RES,CHIP 100	5% 1/10W (except EF34M80)
Q601	8-729-023-22	TRANSISTOR 2SD2114K		R102	1-216-025-91	RES,CHIP 100	5% 1/10W (except EF34M80)
Q602	8-729-230-49	TRANSISTOR 2SC2712-YG		R105	1-216-295-91	SHORT 0	
Q603	8-729-027-23	TRANSISTOR DTA114EKA-T146		R109	1-216-041-00	RES,CHIP 470	5% 1/10W
Q604	8-729-200-17	TRANSISTOR 2SA1091-O		R111	1-216-025-91	RES,CHIP 100	5% 1/10W
Q605	8-729-044-30	TRANSISTOR 2SK2845-LB102		R112	1-216-025-91	RES,CHIP 100	5% 1/10W
Q606	8-729-230-49	TRANSISTOR 2SC2712-YG		R113	1-216-025-91	RES,CHIP 100	5% 1/10W
Q607	8-729-922-37	TRANSISTOR 2SD2144S-UVW		R225	1-216-033-00	RES,CHIP 220	5% 1/10W
Q608	8-729-230-49	TRANSISTOR 2SC2712-YG		R226	1-216-033-00	RES,CHIP 220	5% 1/10W
<RESISTOR>				R227	1-216-033-00	RES,CHIP 220	5% 1/10W
R001	1-414-233-22	INDUCTOR CHIP 0UH		R301	1-216-113-00	RES,CHIP 470K	5% 1/10W
R002	1-216-025-91	RES,CHIP 100	5% 1/10W	R302	1-216-089-91	RES,CHIP 47K	5% 1/10W
R003	1-216-073-00	RES,CHIP 10K	5% 1/10W	R303	1-216-089-91	RES,CHIP 47K	5% 1/10W
R004	1-216-025-91	RES,CHIP 100	5% 1/10W	R304	1-216-073-00	RES,CHIP 10K	5% 1/10W
R005	1-216-025-91	RES,CHIP 100	5% 1/10W	R306	1-216-085-00	RES,CHIP 33K	5% 1/10W
R008	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R308	1-216-025-91	RES,CHIP 100	5% 1/10W
R010	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R309	1-216-025-91	RES,CHIP 100	5% 1/10W
R011	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R310	1-216-025-91	RES,CHIP 100	5% 1/10W
R012	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R315	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R013	1-216-065-91	RES,CHIP 4.7K	5% 1/10W	R316	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R014	1-216-025-91	RES,CHIP 100	5% 1/10W	R318	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R015	1-216-025-91	RES,CHIP 100	5% 1/10W	R319	1-216-025-91	RES,CHIP 100	5% 1/10W
R016	1-216-025-91	RES,CHIP 100	5% 1/10W	R320	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R017	1-216-049-91	RES,CHIP 1K	5% 1/10W	R321	1-216-073-00	RES,CHIP 10K	5% 1/10W
R018	1-216-033-00	RES,CHIP 220	5% 1/10W	R322	1-216-033-00	RES,CHIP 220	5% 1/10W
R019	1-216-073-00	RES,CHIP 10K	5% 1/10W	R326	1-216-029-00	RES,CHIP 150	5% 1/10W
R021	1-216-073-00	RES,CHIP 10K	5% 1/10W	R327	1-216-033-00	RES,CHIP 220	5% 1/10W
R022	1-216-025-91	RES,CHIP 100	5% 1/10W	R328	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R023	1-216-049-91	RES,CHIP 1K	5% 1/10W	R329	1-216-041-00	RES,CHIP 470	5% 1/10W
R024	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R331	1-216-295-91	SHORT 0	
R025	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R332	1-216-033-00	RES,CHIP 220	5% 1/10W
R026	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R333	1-216-083-00	RES,CHIP 27K	5% 1/10W
R027	1-216-049-91	RES,CHIP 1K	5% 1/10W	R334	1-208-291-11	RES,CHIP 4.7M	5% 1/10W
R028	1-216-073-00	RES,CHIP 10K	5% 1/10W (except EF34M80)	R335	1-216-045-00	RES,CHIP 680	5% 1/10W
R029	1-216-049-91	RES,CHIP 1K	5% 1/10W	R338	1-216-037-00	RES,CHIP 330	5% 1/10W
R031	1-216-049-91	RES,CHIP 1K	5% 1/10W	R339	1-216-033-00	RES,CHIP 220	5% 1/10W
R032	1-216-025-91	RES,CHIP 100	5% 1/10W	R340	1-216-025-91	RES,CHIP 100	5% 1/10W
				R345	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R348	1-208-806-11	RES,CHIP 10K	0.50% 1/10W
				R349	1-216-073-00	RES,CHIP 10K	5% 1/10W

A

Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R350	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R556	1-215-437-00	METAL	4.7K 1% 1/4W
R351	1-216-049-91	RES,CHIP	1K 5% 1/10W	R557	1-216-361-00	METAL OXIDE	0.22 5% 2W F
R357	1-216-079-00	RES,CHIP	18K 5% 1/10W	R558	1-247-843-11	CARBON	3.3K 5% 1/4W
R358	1-216-049-91	RES,CHIP	1K 5% 1/10W	R559	1-249-429-11	CARBON	10K 5% 1/4W
R359	1-216-033-00	RES,CHIP	220 5% 1/10W	R560	1-216-073-00	RES,CHIP	10K 5% 1/10W
R360	1-216-033-00	RES,CHIP	220 5% 1/10W	R561	1-216-049-91	RES,CHIP	1K 5% 1/10W
R361	1-216-073-00	RES,CHIP	10K 5% 1/10W	R562	1-249-401-11	CARBON	47 5% 1/4W
R362	1-216-075-00	RES,CHIP	12K 5% 1/10W	R564	1-208-822-11	RES,CHIP	47K 0.50% 1/10W
R363	1-216-079-00	RES,CHIP	18K 5% 1/10W	R565	1-216-061-00	RES,CHIP	3.3K 5% 1/10W
R364	1-216-295-91	SHORT	0	R568	1-249-383-11	CARBON	1.5 5% 1/4W F
R365	1-216-033-00	RES,CHIP	220 5% 1/10W	R570	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R366	1-216-073-00	RES,CHIP	10K 5% 1/10W	R571	1-215-442-00	METAL	7.5K 1% 1/4W
R367	1-216-073-00	RES,CHIP	10K 5% 1/10W	R575	1-208-796-11	RES,CHIP	3.9K 0.50% 1/10W
R368	1-216-073-00	RES,CHIP	10K 5% 1/10W	R577	1-215-913-11	METAL OXIDE	220 5% 3W F
R370	1-216-033-00	RES,CHIP	220 5% 1/10W	R578	1-216-369-00	METAL OXIDE	1 5% 2W F
R375	1-216-025-91	RES,CHIP	100 5% 1/10W (except EF34M80/EF34M90)	R579	1-216-295-91	SHORT	0
R376	1-216-081-00	RES,CHIP	22K 5% 1/10W	R580	1-208-830-11	RES,CHIP	100K 0.50% 1/10W
R377	1-216-121-91	RES,CHIP	1M 5% 1/10W	R581	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W
R378	1-216-295-91	SHORT	0	R582	1-216-295-91	SHORT	0
R500	1-249-417-11	CARBON	1K 5% 1/4W	R583	1-216-125-00	RES,CHIP	1.5M 5% 1/10W
R501	1-216-049-91	RES,CHIP	1K 5% 1/10W	R584	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R505	1-216-113-00	RES,CHIP	470K 5% 1/10W	R585	1-249-389-11	CARBON	4.7 5% 1/4W
R506	1-216-079-00	RES,CHIP	18K 5% 1/10W	R587	1-208-849-11	RES,CHIP	620K 0.50% 1/10W
R507	1-249-389-11	CARBON	4.7 5% 1/4W F	R588	1-215-911-11	METAL OXIDE	100 5% 3W F
R508	1-215-909-11	METAL OXIDE	47 5% 3W F	R589	1-215-886-11	METAL OXIDE	100 5% 2W F
R509	1-216-474-11	METAL OXIDE	82 5% 3W F	R590	1-215-465-00	METAL	68K 1% 1/4W
R510	1-216-424-11	METAL OXIDE	39 5% 1W F	R591	1-260-288-11	CARBON	0.47 5% 1/2W F
R511	1-216-377-11	METAL OXIDE	4.7 5% 2W F	R592	1-208-830-11	RES,CHIP	100K 0.50% 1/10W
R512	1-249-432-11	CARBON	18K 5% 1/4W	R593	1-260-288-11	CARBON	0.47 5% 1/2W F
R513	1-215-485-00	METAL	470K 1% 1/4W	R594	1-260-288-11	CARBON	0.47 5% 1/2W F
R514	1-215-487-00	METAL	560K 1% 1/4W	R596	1-216-480-11	METAL OXIDE	820 5% 3W F
R515	1-216-353-00	METAL OXIDE	2.2 5% 1W F	R597	1-247-750-11	CARBON	680 5% 1/2W F
R516	1-216-081-00	RES,CHIP	22K 5% 1/10W	R598	1-249-438-11	CARBON	56K 5% 1/4W
R517	1-208-798-11	RES,CHIP	4.7K 0.50% 1/10W	R600	1-249-438-11	CARBON	56K 5% 1/4W
R518	1-247-807-31	CARBON	100 5% 1/4W	R601	1-249-417-11	CARBON	1K 5% 1/4W F
R519	1-215-906-11	METAL OXIDE	15 5% 3W F	R602	1-249-389-11	CARBON	4.7 5% 1/4W F
R520	1-215-445-00	METAL	10K 1% 1/4W	R603	1-215-485-00	METAL	470K 1% 1/4W
R522	1-208-806-11	RES,CHIP	10K 0.50% 1/10W	R604	1-216-097-91	RES,CHIP	100K 5% 1/10W
R523	1-249-411-11	CARBON	330 5% 1/4W	R607	1-249-425-11	CARBON	4.7K 5% 1/4W
R525	1-208-854-11	RES,CHIP	1M 0.50% 1/10W	R608	1-240-205-91	CARBON	22M 5% 1/2W
R526	1-216-672-11	METAL CHIP	7.5K 0.50% 1/10W	R609	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R527	1-216-001-00	RES,CHIP	10 5% 1/10W	R610	1-216-073-00	RES,CHIP	10K 5% 1/10W
R528	1-208-814-11	RES,CHIP	22K 0.50% 1/10W	R611	1-216-089-91	RES,CHIP	47K 5% 1/10W
R529	1-208-766-11	RES,CHIP	220 0.50% 1/10W	R612	1-216-045-00	RES,CHIP	680 5% 1/10W
R531	1-247-843-11	CARBON	3.3K 5% 1/4W	R614	1-216-041-00	RES,CHIP	470 5% 1/10W
R532	1-216-073-00	RES,CHIP	10K 5% 1/10W	R615	1-216-366-00	METAL OXIDE	0.56 5% 2W F
R533	1-249-417-11	CARBON	1K 5% 1/4W	R616	1-249-484-11	CARBON	6.8 5% 1/2W F
R534	1-216-361-00	METAL OXIDE	0.22 5% 2W F	R617	1-247-791-91	CARBON	22 5% 1/4W
R535	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R619	1-260-128-11	CARBON	270K 5% 1/2W
R536	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	R621	1-215-859-00	METAL OXIDE	22 5% 1W F
R537	1-208-804-11	RES,CHIP	8.2K 0.50% 1/10W	R623	1-216-095-00	RES,CHIP	82K 5% 1/10W
R539	1-216-049-91	RES,CHIP	1K 5% 1/10W	R624	1-216-089-91	RES,CHIP	47K 5% 1/10W
R540	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R626	1-216-049-91	RES,CHIP	1K 5% 1/10W
R541	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R627	1-240-251-11	CMT,MELF	6.8 5% 10W
R542	1-216-097-91	RES,CHIP	100K 5% 1/10W	R629	1-247-747-11	CARBON	470 5% 1/2W F
R543	1-216-437-00	METAL OXIDE	5.6K 5% 1W F	R630	1-249-429-11	CARBON	10K 5% 1/4W F
R544	1-216-480-11	METAL OXIDE	820 5% 3W F	R631	1-216-089-91	RES,CHIP	47K 5% 1/10W
R545	1-216-077-00	RES,CHIP	15K 5% 1/10W	R632	1-220-886-11	FUSIBLE	0.1 10% 1W F
R546	1-216-077-00	RES,CHIP	15K 5% 1/10W	R634	Δ 1-218-265-91	METAL	8.2M 5% 1W
R547	1-216-085-00	RES,CHIP	33K 5% 1/10W	R635	1-216-492-11	METAL OXIDE	82K 5% 3W F
R548	1-208-796-11	RES,CHIP	3.9K 0.50% 1/10W	R636	1-215-924-00	METAL OXIDE	15K 5% 3W F
R549	1-215-451-00	METAL	18K 1% 1/4W	R637	1-216-492-11	METAL OXIDE	82K 5% 3W F
R550	1-216-097-91	RES,CHIP	100K 5% 1/10W	R639	1-216-361-00	METAL OXIDE	0.22 5% 2W F
R551	1-249-421-11	CARBON	2.2K 5% 1/4W	R640	1-249-415-11	CARBON	680 5% 1/4W
R552	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	R641	1-216-361-00	METAL OXIDE	0.22 5% 2W F
R553	1-215-453-00	METAL	22K 1% 1/4W	R642	1-249-419-11	CARBON	1.5K 5% 1/4W
R554	1-215-453-00	METAL	22K 1% 1/4W	R643	1-247-843-11	CARBON	3.3K 5% 1/4W
				R644	1-249-419-11	CARBON	1.5K 5% 1/4W
				R646	1-215-924-00	METAL OXIDE	15K 5% 3W F

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une trame et une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R647	1-249-387-11	CARBON 3.3	5% 1/4W	C713	1-102-228-00	CERAMIC 470PF	10% 500V
R648	1-216-057-00	RES,CHIP 2.2K	5% 1/10W	C716	1-126-968-11	ELECT 100MF	20% 50V
R649	1-249-417-11	CARBON 1K	5% 1/4W	C717	1-107-651-11	ELECT 4.7MF	20% 250V
R650	1-215-882-00	METAL OXIDE 22	5% 2W F	C726	1-104-664-11	ELECT 47MF	20% 25V
R652	1-215-900-11	METAL OXIDE 22K	5% 2W F	C1800	1-126-964-11	ELECT 10MF	20% 50V
R653	1-215-873-00	METAL OXIDE 4.7K	5% 1W F	C1803	1-126-964-11	ELECT 10MF	20% 50V
R654	1-216-369-00	METAL OXIDE 1	5% 2W F	C1804	1-126-964-11	ELECT 10MF	20% 50V
R656	1-249-417-11	CARBON 1K	5% 1/4W	C1809	1-126-942-61	ELECT 1000MF	20% 25V
R657	1-260-127-11	CARBON 220K	5% 1/2W				
R659	1-216-049-91	RES,CHIP 1K	5% 1/10W				
R660	1-216-073-00	RES,CHIP 10K	5% 1/10W				
R661	1-215-873-00	METAL OXIDE 4.7K	5% 1W F				
R909	1-216-065-91	RES,CHIP 4.7K	5% 1/10W				
R910	1-216-065-91	RES,CHIP 4.7K	5% 1/10W				
<RELAY>							
RY600	\triangle 1-755-040-11	RELAY					
RY601	\triangle 1-755-266-11	RELAY, AC POWER					
<SWITCH>							
S501	1-572-707-11	SWITCH, LEVER					
S502	1-572-707-11	SWITCH, LEVER					
<TRANSFORMER>							
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE					
T503	\triangle X-4036-321-1	TRANSFORMER ASSY, FLYBACK (NX-4009//J1A4)					
T504	1-431-475-11	TRANSFORMER, HORIZONTAL LINEAR					
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)					
T601	\triangle 1-431-536-11	TRANSFORMER, LINE FILTER					
T603	\triangle 1-431-946-11	TRANSFORMER, CONVERTER					
T604	\triangle 1-431-852-11	TRANSFORMER, CONVERTER (SRT)					
<THERMISTOR>							
THP600	\triangle 1-809-827-21	THERMISTOR, POSITIVE					
<TUNER>							
TU101	8-598-450-00	TUNER, FSS BTF-LG434 (EF34M80)					
TU101	8-598-452-00	TUNER, FSS BTF-WG442 (except EF34M80)					
<CRYSTAL>							
X001	1-781-174-21	VIBRATOR, CERAMIC					
X301	1-781-134-21	VIBRATOR, CRYSTAL					
X302	1-781-132-21	VIBRATOR, CRYSTAL					

* A-1331-868-A C BOARD, COMPLETE							

4-382-854-11 SCREW (M3X10), P, SW (+)							
<CAPACITOR>							
C700	1-110-389-11	FILM MELF 0.1MF	5% 250V				
C701	1-162-114-00	CERAMIC 0.0047MF	2KV				
C702	1-102-074-00	CERAMIC 0.001MF	10% 50V				
C704	1-107-652-11	ELECT 10MF	20% 250V				
C707	1-137-399-11	MYLAR 0.1MF	5% 50V				
C708	1-102-228-00	CERAMIC 470PF	10% 500V				
C709	1-102-228-00	CERAMIC 470PF	10% 500V				
C710	1-102-960-00	CERAMIC 24PF	5% 50V				
C711	1-102-852-91	CERAMIC 47PF	5% 50V				
C712	1-102-525-11	CERAMIC 68PF	5% 50V				
<CONNECTOR>							
CN700	1-695-915-11	TAB (CONTACT)					
CN701	1-508-765-00	PIN, CONNECTOR (5mm PITCH) 3P					
CN702	1-695-915-11	TAB (CONTACT)					
CN703	* 1-564-509-11	PLUG, CONNECTOR 6P					
CN704	1-695-915-11	TAB (CONTACT)					
CN705	* 1-564-518-11	PLUG, CONNECTOR 3P					
CN1801	* 1-564-509-11	PLUG, CONNECTOR 6P					
CN1802	* 1-564-506-11	PLUG, CONNECTOR 3P					
<DIODE>							
D700	8-719-911-19	DIODE 1SS119-25					
D701	8-719-911-19	DIODE 1SS119-25					
D702	8-719-911-19	DIODE 1SS119-25					
D703	8-719-911-19	DIODE 1SS119-25					
D704	8-719-911-19	DIODE 1SS119-25					
D705	8-719-051-85	DIODE HSS83TD					
D706	8-719-051-85	DIODE HSS83TD					
D707	8-719-051-85	DIODE HSS83TD					
D708	8-719-911-19	DIODE 1SS119-25					
D709	8-719-911-19	DIODE 1SS119-25					
D710	8-719-911-19	DIODE 1SS119-25					
D711	8-719-110-23	DIODE RD11ESB3					
D714	8-719-051-85	DIODE HSS83TD					
D715	8-719-051-85	DIODE HSS83TD					
D716	8-719-051-85	DIODE HSS83TD					
D720	8-719-911-19	DIODE 1SS119-25					
D721	8-719-911-19	DIODE 1SS119-25					
D722	8-719-911-19	DIODE 1SS119-25					
D1803	8-719-911-19	DIODE 1SS119-25					
D1804	8-719-911-19	DIODE 1SS119-25					
D1808	8-719-908-03	DIODE GP08D					
<IC>							
IC701	8-759-561-28	IC STV5112					
IC1800	8-759-822-38	IC LA6510					
<JACK>							
J701	\triangle 1-540-071-22	SOCKET, PICTURE TUBE					
<COIL>							
L701	1-410-667-31	INDUCTOR 22UH					
L705	1-408-609-41	INDUCTOR 33UH					
L706	1-408-609-41	INDUCTOR 33UH					
L707	1-408-609-41	INDUCTOR 33UH					
<TRANSISTOR>							
Q1800	8-729-119-76	TRANSISTOR 2SA1175-HFE					
Q1802	8-729-119-78	TRANSISTOR 2SC2785-HFE					
<RESISTOR>							
R700	1-249-393-11	CARBON 10	5% 1/4W F				
R701	1-249-496-11	CARBON 100K	5% 1/2W				
R702	1-215-461-00	METAL 47K	1% 1/4W				



Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R703	1-215-414-00	METAL 510	1%
R704	1-215-414-00	METAL 510	1%
R705	1-249-417-11	CARBON 1K	5%
R706	1-249-417-11	CARBON 1K	5%
R707	1-215-414-00	METAL 510	1%
R708	1-249-417-11	CARBON 1K	5%
R709	1-215-903-11	METAL OXIDE 68K	5%
R711	1-215-903-11	METAL OXIDE 68K	5%
R712	1-215-903-11	METAL OXIDE 68K	5%
R713	1-215-461-00	METAL 47K	1%
R714	1-249-425-11	CARBON 4.7K	5%
R715	1-249-413-11	CARBON 470	5%
R716	1-249-413-11	CARBON 470	5%
R717	1-249-425-11	CARBON 4.7K	5%
R718	1-247-752-11	CARBON 1K	5%
R719	1-249-425-11	CARBON 4.7K	5%
R722	1-247-752-11	CARBON 1K	5%
R723	1-249-413-11	CARBON 470	5%
R724	1-247-752-11	CARBON 1K	5%
R730	1-216-392-11	METAL OXIDE 1.8	5%
R734	1-247-739-11	CARBON 100	5%
R744	1-215-415-00	METAL 560	1%
R745	1-215-410-00	METAL 360	1%
R1800	1-249-417-11	CARBON 1K	5%
R1801	1-249-426-11	CARBON 5.6K	5%
R1802	1-249-382-11	CARBON 1.2	5%
R1803	1-249-382-11	CARBON 1.2	5%
R1805	1-249-429-11	CARBON 10K	5%
R1806	1-249-425-11	CARBON 4.7K	5%
R1808	1-249-425-11	CARBON 4.7K	5%
R1809	1-249-435-11	CARBON 33K	5%
R1810	1-249-435-11	CARBON 33K	5%
R1811	1-249-440-11	CARBON 82K	5%
R1812	1-249-435-11	CARBON 33K	5%
R1821	1-249-440-11	CARBON 82K	5%
R1822	1-249-435-11	CARBON 33K	5%
R1823	1-249-426-11	CARBON 5.6K	5%
R1824	1-249-435-11	CARBON 33K	5%
R1825	1-247-843-11	CARBON 3.3K	5%
<VARIABLE RESISTOR>			
RV702	Δ 1-241-656-21	RES, ADJ, METAL FILM 110M	
RV1801	1-223-241-11	RES, ADJ, CARBON 47K	

* A-1342-440-A VM2 BOARD, COMPLETE			

4-382-854-11 SCREW (M3X10), P, SW (+)			
<CAPACITOR>			
C5900	1-102-115-00	CERAMIC 560PF	10%
C5902	1-107-883-11	ELECT 330MF	20%
C5903	1-161-830-00	CERAMIC 0.0047MF	500V
C5905	1-126-925-11	ELECT 470MF	20%
C5906	1-130-491-00	MYLAR 0.047MF	50V
C5907	1-107-638-11	ELECT 33MF	20%
C5908	1-106-383-00	MYLAR 0.047MF	10%
C5910	1-130-471-00	MYLAR 0.001MF	50V
C5911	1-107-949-11	ELECT 2.2MF	20%
C5912	1-104-999-11	MYLAR 0.1MF	10%
C5913	1-130-471-00	MYLAR 0.001MF	50V
C5914	1-126-933-11	ELECT 100MF	20%
C5916	1-130-491-00	MYLAR 0.047MF	50V
C5917	1-126-925-11	ELECT 470MF	20%

REF. NO.	PART NO.	DESCRIPTION	REMARK
C5919	1-130-471-00	MYLAR 0.001MF	50V
C5921	1-101-880-00	CERAMIC 47PF	10%
C5922	1-107-714-11	ELECT 10MF	20%
<CONNECTOR>			
CN2801	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN5901	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN5904	* 1-770-723-11	CONNECTOR, BOARD TO BOARD 8P	
<DIODE>			
D5901	8-719-911-19	DIODE 1SS119-25	
D5902	8-719-110-88	DIODE RD39ESB2	
D5904	8-719-110-88	DIODE RD39ESB2	
D5906	1-249-399-11	CARBON 33	5%
D5907	1-249-399-11	CARBON 33	5%
D5909	8-719-911-19	DIODE 1SS119-25	
D5910	8-719-911-19	DIODE 1SS119-25	
<COIL>			
L5901	1-414-187-11	INDUCTOR 47UH	
<TRANSISTOR>			
Q5901	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5902	8-729-017-05	TRANSISTOR 2SA1837	
Q5903	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5904	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q5905	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5906	8-729-017-06	TRANSISTOR 2SC4793	
Q5907	8-729-922-37	TRANSISTOR 2SD2144S-UVW	
Q5908	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q5909	8-729-119-78	TRANSISTOR 2SC2785-HFE	
<RESISTOR>			
R5901	1-249-401-11	CARBON 47	5%
R5902	1-249-414-11	CARBON 560	5%
R5903	1-247-731-11	CARBON 22	5%
R5904	1-249-408-11	CARBON 180	5%
R5905	1-249-417-11	CARBON 1K	5%
R5906	1-249-417-11	CARBON 1K	5%
R5907	1-249-417-11	CARBON 1K	5%
R5908	1-249-383-11	CARBON 1.5	5%
R5909	1-247-815-91	CARBON 220	5%
R5910	1-249-403-11	CARBON 68	5%
R5911	1-249-432-11	CARBON 18K	5%
R5914	1-249-403-11	CARBON 68	5%
R5917	1-249-418-11	CARBON 1.2K	5%
R5918	1-249-429-11	CARBON 10K	5%
R5919	1-249-417-11	CARBON 1K	5%
R5920	1-249-432-11	CARBON 18K	5%
R5921	1-216-477-11	METAL OXIDE 270	5%
R5922	1-249-414-11	CARBON 560	5%
R5923	1-249-383-11	CARBON 1.5	5%
R5924	1-249-397-11	CARBON 22	5%
R5925	1-249-397-11	CARBON 22	5%
R5927	1-249-416-11	CARBON 820	5%
R5930	1-249-419-11	CARBON 1.5K	5%
R5931	1-249-442-11	CARBON 510	5%
R5932	1-249-437-11	CARBON 47K	5%
R5933	1-249-417-11	CARBON 1K	5%

V1

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1342-452-A	V1 BOARD, COMPLETE *****		Q812	8-729-230-49	TRANSISTOR 2SC2712-YG	
		(KV-EF34M31/EF34M61/EF34M91)		Q813	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<CAPACITOR>		Q814	8-729-230-49	TRANSISTOR 2SC2712-YG	
C801	1-104-664-11	ELECT 47MF	20% 16V	Q817	8-729-900-53	TRANSISTOR DTC114EK	
C805	1-163-038-91	CERAMIC CHIP 0.1MF	25V	Q818	8-729-230-49	TRANSISTOR 2SC2712-YG	
C806	1-163-038-91	CERAMIC CHIP 0.1MF	25V			<RESISTOR>	
C815	1-163-251-11	CERAMIC CHIP 100PF	5% 50V	R800	1-208-806-11	RES,CHIP 10K	0.50% 1/10W
C816	1-164-505-11	CERAMIC CHIP 2.2MF	16V	R801	1-216-295-91	SHORT 0	
C817	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V	R802	1-216-025-91	RES,CHIP 100	5% 1/10W
C818	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	R803	1-216-295-91	SHORT 0	
C820	1-163-239-11	CERAMIC CHIP 33PF	5% 50V	R804	1-216-295-91	SHORT 0	
C821	1-163-038-91	CERAMIC CHIP 0.1MF	25V	R805	1-216-295-91	SHORT 0	
C822	1-163-009-11	CERAMIC CHIP 0.001MF	10% 50V	R807	1-216-295-91	SHORT 0	
C823	1-126-933-11	ELECT 100MF	20% 16V	R813	1-216-295-91	SHORT 0	
C826	1-126-963-11	ELECT 4.7MF	20% 50V	R820	1-216-073-00	RES,CHIP 10K	5% 1/10W
C829	1-163-113-00	CERAMIC CHIP 68PF	5% 50V	R821	1-216-083-00	RES,CHIP 27K	5% 1/10W
C830	1-163-038-91	CERAMIC CHIP 0.1MF	25V	R822	1-216-025-91	RES,CHIP 100	5% 1/10W
C831	1-126-933-11	ELECT 100MF	20% 16V	R824	1-216-295-91	SHORT 0	
C832	1-126-964-11	ELECT 10MF	20% 50V	R825	1-216-295-91	SHORT 0	
C835	1-163-038-91	CERAMIC CHIP 0.1MF	25V	R827	1-216-295-91	SHORT 0	
C837	1-126-933-11	ELECT 100MF	20% 16V	R828	1-216-025-91	RES,CHIP 100	5% 1/10W
		<CONNECTOR>		R829	1-216-025-91	RES,CHIP 100	5% 1/10W
CN801	* 1-774-812-11	CONNECTOR, BOARD TO BOARD 7P		R830	1-216-295-91	SHORT 0	
CN803	* 1-774-812-11	CONNECTOR, BOARD TO BOARD 7P		R831	1-216-295-91	SHORT 0	
		<DIODE>		R832	1-208-790-11	RES,CHIP 2.2K	0.50% 1/10W
D802	8-719-914-44	DIODE DAP202K		R835	1-216-295-91	SHORT 0	
D803	8-719-105-46	DIODE RD3.3M-B2		R839	1-216-655-11	RES,CHIP 1.5K	0.50% 1/10W
D804	8-719-105-91	DIODE RD5.6M-B2		R841	1-216-025-91	RES,CHIP 100	5% 1/10W
D806	8-719-404-49	DIODE MA111		R842	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
D807	8-719-404-49	DIODE MA111		R843	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
		<FERRITE BEAD>		R844	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
FB801	1-410-397-21	FERRITE 1.1UH		R845	1-216-049-91	RES,CHIP 1K	5% 1/10W
FB802	1-410-397-21	FERRITE 1.1UH		R846	1-216-049-91	RES,CHIP 1K	5% 1/10W
FB803	1-410-397-21	FERRITE 1.1UH		R847	1-216-049-91	RES,CHIP 1K	5% 1/10W
FB804	1-410-682-31	INDUCTOR 470UH		R848	1-216-049-91	RES,CHIP 1K	5% 1/10W
FB805	1-410-397-21	FERRITE 1.1UH		R849	1-216-049-91	RES,CHIP 1K	5% 1/10W
		<IC>		R850	1-216-105-91	RES,CHIP 220K	5% 1/10W
IC801	8-759-476-87	IC SAA5261		R851	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
		<CHIP CONDUCTOR>		R853	1-216-067-00	RES,CHIP 5.6K	5% 1/10W
JR801	1-216-295-91	SHORT 0		R857	1-216-081-00	RES,CHIP 22K	5% 1/10W
JR802	1-216-295-91	SHORT 0		R858	1-216-067-00	RES,CHIP 5.6K	5% 1/10W
JR804	1-216-295-91	SHORT 0		R861	1-216-049-91	RES,CHIP 1K	5% 1/10W
JR805	1-216-295-91	SHORT 0		R862	1-260-095-11	CARBON 470	5% 1/2W
JR806	1-216-295-91	SHORT 0		R863	1-216-049-91	RES,CHIP 1K	5% 1/10W
JR807	1-216-295-91	SHORT 0		R864	1-216-041-00	RES,CHIP 470	5% 1/10W
JR808	1-216-295-91	SHORT 0		R866	1-215-880-00	METAL OXIDE 10	5% 2W F
		<TRANSISTOR>		R871	1-216-037-00	RES,CHIP 330	5% 1/10W
Q801	8-729-230-49	TRANSISTOR 2SC2712-YG		R879	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q803	8-729-230-49	TRANSISTOR 2SC2712-YG		R880	1-216-041-00	RES,CHIP 470	5% 1/10W
Q805	8-729-230-49	TRANSISTOR 2SC2712-YG		R882	1-216-049-91	RES,CHIP 1K	5% 1/10W
Q806	8-729-230-49	TRANSISTOR 2SC2712-YG		R884	1-216-025-91	RES,CHIP 100	5% 1/10W
Q807	8-729-230-49	TRANSISTOR 2SC2712-YG		R888	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
Q808	8-729-230-49	TRANSISTOR 2SC2712-YG		R889	1-216-073-00	RES,CHIP 10K	5% 1/10W
Q810	8-729-230-49	TRANSISTOR 2SC2712-YG		R890	1-216-081-00	RES,CHIP 22K	5% 1/10W
Q811	8-729-019-01	TRANSISTOR 2SD2394-EF		R894	1-216-073-00	RES,CHIP 10K	5% 1/10W
		<CRYSTAL>		R895	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
				R896	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R897	1-216-073-00	RES,CHIP 10K	5% 1/10W
				R898	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
				X801	1-578-774-11	VIBRATOR, CRYSTAL	

D2

REF. NO.	PART NO.	DESCRIPTION	REMARK
	* A-1343-584-A	D2 BOARD, COMPLETE *****	
<CAPACITOR>			
C2801	1-130-479-00	MYLAR 0.0047MF 5%	50V
C2803	1-136-357-11	FILM 680PF 5%	50V
C2805	1-104-664-11	ELECT 47MF 20%	25V
C2806	1-136-559-11	MYLAR 0.0047MF 10%	400V
C2809	1-126-964-11	ELECT 10MF 20%	50V
C2810	1-102-228-00	CERAMIC 470PF 10%	500V
C2811	1-107-938-11	ELECT 0.47MF 20%	160V
C2813	1-107-636-11	ELECT 10MF 20%	160V
C2814	1-126-964-11	ELECT 10MF 20%	50V
C2817	1-102-244-00	CERAMIC 220PF 10%	500V
C2818	1-129-928-00	FILM 0.0027MF 5%	630V
C2819	1-104-664-11	ELECT 47MF 20%	25V
C2820	1-107-714-11	ELECT 10MF 20%	16V
C2821	1-130-469-00	MYLAR 680PF 5%	50V
C2822	1-106-375-12	MYLAR 0.022MF 10%	250V
C2824	1-104-664-11	ELECT 47MF 20%	25V
C2825	1-136-601-11	FILM 0.01MF 5%	630V
C2826	1-137-194-81	FILM 0.47MF 5%	50V
C2828	1-107-714-11	ELECT 10MF 20%	16V
C2829	1-164-161-11	CERAMIC CHIP 0.0022MF 10%	50V
C2830	1-110-205-11	FILM 0.0068MF 5%	50V
C2832	1-126-960-11	ELECT 1MF 20%	50V
C2833	1-137-366-11	FILM 0.0022MF 5%	50V
C2834	1-106-220-00	MYLAR 0.1MF 10%	100V
C2835	1-216-295-91	SHORT 0	
C2837	1-102-129-00	CERAMIC 0.01MF 10%	50V
C2840	1-110-174-71	MYLAR 0.082MF 5%	100V
C2841	1-136-177-00	FILM 1MF 5%	50V
C2842	1-130-477-00	MYLAR 0.0033MF 5%	50V
C2843	1-107-714-11	ELECT 10MF 20%	16V
<CONNECTOR>			
CN2821	* 1-564-506-11	PLUG, CONNECTOR 3P	
CN2822	* 1-564-510-11	PLUG, CONNECTOR 7P	
CN2823	1-695-915-11	TAB (CONTACT)	
<DIODE>			
D2801	8-719-404-49	DIODE MA111	
D2803	8-719-063-73	DIODE D1NL20U-TR	
D2804	8-719-063-73	DIODE D1NL20U-TR	
D2806	8-719-302-43	DIODE EL1Z	
D2813	8-719-404-49	DIODE MA111	
D2814	8-719-210-21	DIODE 11EQS04	
D2815	8-719-911-19	DIODE 1SS119-25	
D2816	8-719-911-19	DIODE 1SS119-25	
<IC>			
IC2801	8-759-700-07	IC NJM2903M	
IC2803	8-759-701-59	IC NJM78M09FA	
IC2805	8-759-998-98	IC LM358D	
IC2806	8-759-700-07	IC NJM2903M	
<CHIP CONDUCTOR>			
JR2803	1-216-295-91	SHORT 0	
JR2804	1-216-295-91	SHORT 0	
JR2805	1-216-295-91	SHORT 0	
JR2815	1-216-295-91	SHORT 0	
<COIL>			
L2801	1-406-677-11	INDUCTOR 10mH	

REF. NO.	PART NO.	DESCRIPTION	REMARK
L2802	1-459-111-00	INDUCTOR 10mH	
L2803	1-414-502-21	INDUCTOR 33mH	
L2806	1-406-677-11	INDUCTOR 10mH	
<TRANSISTOR>			
Q2802	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2805	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2806	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2807	8-729-043-95	TRANSISTOR 2SC3840(3)	
Q2811	8-729-931-45	TRANSISTOR IRF614	
Q2813	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2821	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q2822	8-729-216-22	TRANSISTOR 2SA1162-G	
Q2823	8-729-017-06	TRANSISTOR 2SC4793	
Q2824	8-729-140-97	TRANSISTOR 2SB734-34	
<RESISTOR>			
R2801	1-216-057-91	RES,CHIP 2.2K	5% 1/10W
R2803	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R2804	1-216-041-00	RES,CHIP 470	5% 1/10W
R2806	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R2809	1-216-073-00	RES,CHIP 10K	5% 1/10W
R2812	1-216-097-91	RES,CHIP 100K	5% 1/10W
R2813	1-216-089-91	RES,CHIP 47K	5% 1/10W
R2816	1-216-097-91	RES,CHIP 100K	5% 1/10W
R2820	1-216-089-91	RES,CHIP 47K	5% 1/10W
R2821	1-249-412-11	CARBON 390	5% 1/4W F
R2824	1-249-393-11	CARBON 10	5% 1/4W F
R2825	1-216-037-00	RES,CHIP 330	5% 1/10W
R2827	1-216-041-00	RES,CHIP 470	5% 1/10W
R2830	1-215-899-11	METAL OXIDE 15K	5% 2W F
R2831	1-215-873-00	METAL OXIDE 4.7K	5% 1W F
R2833	1-216-460-00	METAL OXIDE 3.9K	5% 2W F
R2834	1-215-873-00	METAL OXIDE 4.7K	5% 1W F
R2837	1-216-063-91	RES,CHIP 3.9K	5% 1/10W
R2838	1-216-675-00	RES,CHIP 10K	5% 1/10W
R2839	1-216-081-00	RES,CHIP 22K	5% 1/10W
R2840	1-216-097-91	RES,CHIP 100K	5% 1/10W
R2843	1-216-097-91	RES,CHIP 100K	5% 1/10W
R2844	1-216-097-91	RES,CHIP 100K	5% 1/10W
R2846	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R2847	1-216-049-91	RES,CHIP 1K	5% 1/10W
R2857	1-216-671-00	RES,CHIP 6.8K	5% 1/10W
R2858	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
R2859	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R2860	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R2861	1-216-107-00	RES,CHIP 270K	5% 1/10W
R2862	1-216-107-00	RES,CHIP 270K	5% 1/10W
R2866	1-216-073-00	RES,CHIP 10K	5% 1/10W
R2867	1-216-081-00	RES,CHIP 22K	5% 1/10W
R2869	1-216-113-00	RES,CHIP 470K	5% 1/10W
R2871	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R2872	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R2874	1-216-085-00	RES,CHIP 33K	5% 1/10W
R2877	1-216-421-11	METAL OXIDE 12	5% 1W F
R2878	1-216-081-00	RES,CHIP 22K	5% 1/10W
R2879	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R2880	1-216-073-00	RES,CHIP 10K	5% 1/10W
R2882	1-216-657-00	RES,CHIP 1.8K	5% 1/10W
R2883	1-216-067-00	RES,CHIP 5.6K	5% 1/10W
R2884	1-216-063-91	RES,CHIP 3.9K	5% 1/10W
R2885	1-216-689-11	RES,CHIP 39K	5% 1/10W
R2886	1-216-067-00	RES,CHIP 5.6K	5% 1/10W
R2887	1-216-651-91	RES,CHIP 1K	5% 1/10W
R2888	1-216-049-91	RES,CHIP 1K	5% 1/10W

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Les composants identifiés par une trame et une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK			
L1903	1-416-857-11	INDUCTOR 65UH				
L1904	1-416-857-11	INDUCTOR 65UH				
<TRANSISTOR>						
Q1901	8-729-030-02	TRANSISTOR DTC144ESA				
Q1902	8-729-030-02	TRANSISTOR DTC144ESA				
<RESISTOR>						
R1900	1-249-411-11	CARBON	330	5%	1/4W	
R1901	1-249-411-11	CARBON	330	5%	1/4W	
R1902	1-247-804-11	CARBON	75	5%	1/4W	
R1903	1-249-441-11	CARBON	100K	5%	1/4W	
R1904	1-249-437-11	CARBON	47K	5%	1/4W	
R1905	1-249-437-11	CARBON	47K	5%	1/4W	
R1906	1-249-441-11	CARBON	100K	5%	1/4W	
R1908	1-249-413-11	CARBON	470	5%	1/4W	
R1909	1-249-417-11	CARBON	1K	5%	1/4W	
R1910	1-249-420-11	CARBON	1.8K	5%	1/4W	
R1911	1-249-411-11	CARBON	330	5%	1/4W	
R1912	1-247-843-11	CARBON	3.3K	5%	1/4W	
R1913	1-249-429-11	CARBON	10K	5%	1/4W	
R1914	1-249-411-11	CARBON	330	5%	1/4W	
R1915	1-249-429-11	CARBON	10K	5%	1/4W	
R1916	1-249-401-11	CARBON	47	5%	1/4W	
R1917	1-247-804-11	CARBON	75	5%	1/4W	
R1920	1-247-807-31	CARBON	100	5%	1/4W	
R1921	1-247-807-31	CARBON	100	5%	1/4W	
R1922	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1924	1-247-804-11	CARBON	75	5%	1/4W	
R1925	1-215-381-00	METAL	22	1%	1/4W	
R1926	1-215-381-00	METAL	22	1%	1/4W	
<SWITCH>						
S1601	△ 1-571-433-21	SWITCH, PUSH (AC POWER)				
S1902	1-692-431-21	SWITCH, TACTILE				
S1903	1-692-431-21	SWITCH, TACTILE				
S1904	1-692-431-21	SWITCH, TACTILE				
S1905	1-692-431-21	SWITCH, TACTILE				
S1906	1-692-431-21	SWITCH, TACTILE				

* A-1388-226-A		J1 BOARD, COMPLETE	*****			
<CAPACITOR>						
C2410	1-126-967-11	ELECT	47MF	20%	50V	
C2411	1-126-967-11	ELECT	47MF	20%	50V	
C2412	1-126-967-11	ELECT	47MF	20%	50V	
C2413	1-102-112-00	CERAMIC	330PF	10%	50V	
C2414	1-102-112-00	CERAMIC	330PF	10%	50V	
C2418	1-126-960-11	ELECT	1MF	20%	50V	
C2419	1-126-960-11	ELECT	1MF	20%	50V	
<CONNECTOR>						
CN2410	* 1-564-523-11	PLUG, CONNECTOR 8P				
<DIODE>						
D2410	8-719-121-26	DIODE RD9.1ESL2				
D2411	8-719-121-26	DIODE RD9.1ESL2				
D2412	8-719-121-26	DIODE RD9.1ESL2				
D2414	8-719-121-26	DIODE RD9.1ESL2				

REF. NO.	PART NO.	DESCRIPTION	REMARK			
D2415	8-719-121-26	DIODE RD9.1ESL2				
<JACK>						
J2410	1-784-623-11	BLOCK, PIN JACK 5P				
<RESISTOR>						
R2410	1-247-804-11	CARBON	75	5%	1/4W	
R2411	1-247-804-11	CARBON	75	5%	1/4W	
R2412	1-247-804-11	CARBON	75	5%	1/4W	
R2414	1-247-887-00	CARBON	220K	5%	1/4W	
R2415	1-247-807-31	CARBON	100	5%	1/4W	
R2417	1-247-887-00	CARBON	220K	5%	1/4W	
R2418	1-247-807-31	CARBON	100	5%	1/4W	
R2419	1-247-815-91	CARBON	220	5%	1/4W	
R2420	1-247-815-91	CARBON	220	5%	1/4W	
R2421	1-247-815-91	CARBON	220	5%	1/4W	

MISCELLANEOUS						

	1-251-658-21	SPLITTER RF				
△	1-416-757-11	COIL, DEMAGNETIC				
	1-416-871-11	COIL, LANDING CORRECTION				
	1-452-032-00	MAGNET,DISK ; 10mmØ				
	1-452-094-00	CIRCULAR DISC MAGNET B				
	1-452-896-61	COIL, NA ROTATION (RT-200)				
△	1-467-525-22	CAP BLOCK, HIGH-VOLTAGE				
	1-505-473-11	SPEAKER (12CM)				
	1-505-474-11	SPEAKER (5CM)				
*	1-555-110-00	P-P CABLE				
△	1-574-062-12	CORD, POWER (WITH CONNECTOR)				
		2.5A/250V (except EF34M90(HK))				
△	1-769-609-21	CORD, POWER (WITH CONNECTOR)				
		(EF34M90(HK))				
	1-771-360-11	SWITCH, TOP				
	1-900-241-30	LEAD ASSY, G2 (except EF34M31)				
	1-900-243-56	LEAD ASSY, G2 (EF34M31)				
△	8-451-499-11	DEFLECTION YOKE (Y34RSN)				
△	8-453-007-31	NECK ASSEMBLY NA324-M3				
△	8-735-049-05	PICTURE TUBE (A80LPD80X)				
		(except EF34M61/EF34M90(JE))				
△	8-735-050-05	PICTURE TUBE (A80LPD80X) (EF34M61)				
△	8-735-055-05	PICTURE TUBE(A80LPD80X) (EF34M90(JE))				
	8-742-166-00	IC SBX3005-01				

REF. NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES AND PACKING MATERIALS	

	1-569-008-21	ADAPTOR, CONVERSION 2P (except EF34M31/EF34M90(HK))	
	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
	3-864-789-11	MANUAL, INSTRUCTION (except EF34M90(HK)/EF34M90(JE))	
	3-864-789-31	MANUAL, INSTRUCTION (EF34M80/EF34M90(JE)/EF34M91)	
	3-864-789-41	MANUAL, INSTRUCTION (EF34M90(HK)/EF34M90(JE))	
	4-032-113-01	REINFORCEMENT	
	* 4-067-102-01	INDIVIDUAL CARTON	
	* 4-067-102-11	INDIVIDUAL CARTON (EF34M80/EF34M91)	
	* 4-067-103-01	TRAY	
	* 4-067-103-11	TRAY (EF34M80/EF34M91)	
	* 4-067-104-01	CUSHION (UPPER) (ASSY)	
	* 4-067-105-01	CUSHION (LOWER) (ASSY)	
	* 4-384-101-21	BAG, PROTECTION	
	4-392-003-01	BAND, HOLD	
	4-392-004-01	CLIP	
	4-392-004-11	CLIP (except EF34M61)	
	* 4-396-077-01	JOINT	
		REMOTE COMMANDER	

	1-418-039-11	REMOTE COMMANDER (RM-951)	
	4-978-977-01	POCKET, COVER (FOR RM-951)	

